

CYCOLOYTM FR RESIN C6600

REGION ASIA

DESCRIPTION

CYCOLOY C6600 Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS) resin is a standard grade that can be injection molded. This non-chlorinated, non-brominated flame retardant PC/ABS has a UL VO & 5VB flame rating. CYCOLOY C6600 resin is an excellent candidate for a wide variety of applications including business equipment, monitors, and enclosures.

TYPICAL PROPERTY VALUES

Revision 20180906

MCHANICIA Tensile Stress, yld, Type I, 50 mm/min 63 MPa ASTIM D 638 Tensile Stress, brk, Type I, 50 mm/min 49 MPa ASTIM D 638 Tensile Strain, yld, Type I, 50 mm/min 40 % ASTIM D 638 Tensile Strain, yld, Type I, 50 mm/min 80 % ASTIM D 638 Tensile Strain, brk, Type I, 50 mm/min 3000 MPa ASTIM D 638 Tensile Strain, brk, Type I, 50 mm/min 3000 MPa ASTIM D 638 Flexural Modulus, 13 mm/min, 50 mm span 620 MPa ASTIM D 790 HExural Modulus, 13 mm/min, 50 mm span 620 MPa ASTIM D 790 IMPACT V JI/m ASTIM D 790 IMPACT SSIM D 790 STIM D 790 Instrumented Impact Total Energy, 30°C 50 JI/m ASTIM D 548 Instrumented Impact Total Energy, 30°C 9 °C ASTIM D 648 HDT, 1.82 MPa, 6.4 mm, unanealed 83 °C ASTIM D 648 HDT, 1.82 MPa, 6.4 mm, unanealed 90 °C ASTIM D 648 Relative Temp Index, Mech w/n impact<	PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Tensile Stress, Iyl, Type I, 50 mm/min 63 MPa ASTM D 638 Tensile Stress, Ixh, Type I, 50 mm/min 49 MPa ASTM D 638 Tensile Strain, Ixh, Type I, 50 mm/min 80 % ASTM D 638 Tensile Strain, Ixh, Type I, 50 mm/min 3000 MPa ASTM D 638 Tensile Modulus, 50 mm/min 3000 MPa ASTM D 700 Flexural Modulus, 13 mm/min, 50 mm span 62 MPa ASTM D 700 Howard Modulus, 13 mm/min, 50 mm span 50 I/m ASTM D 756 Howard Modulus, 13 mm/min, 50 mm span 50 I/m ASTM D 756 Howard Modulus, 13 mm/min, 50 mm span 50 I/m ASTM D 756 Howard Modulus, 13 mm/min, 50 mm span 50 I/m ASTM D 756 Howard Modulus, 13 mm/min, 50 mm span 50 I/m ASTM D 756 Howard Modulus, 13 mm/min, 50 mm span 50 I/m ASTM D 756 Howard Modulus, 13 mm/min, 50 mm span 50 I/m ASTM D 756 Howard Modulus, 13 mm/min, 50 mm span 50 I/m ASTM D 756 Howard Modulus, 13 mm/m	MECHANICAL			
Tensile Strein, Vit, Type I, 50 mm/min 49 MPa ASMID 638 Tensile Strain, Jul, Type I, 50 mm/min 4 8 ASMID 638 Tensile Modulus, 50 mm/min 3000 MPa ASMID 638 Flexural Stress, Jul, 1.3 mm/min, 50 mm span 94 MPa ASMID 790 Hexural Modulus, 1.3 mm/min, 50 mm span 620 WPa ASMID 790 MPACT TURK WPa ASMID 790 Instrumented Impact Total Energy, 23°C 50 J/m ASMID 256 Instrumented Impact Total Energy, 23°C 51 J ASMID 1525 Instrumented Impact Total Energy, 23°C 59 C ASMID 1525 Instrumented Impact Total Energy, 23°C 59 C ASMID 1525 HOT, 1.82 MPa, 8.2 mm, unannealed 83 C ASMID 1525 HOT, 1.82 MPa, 6.4 mm, unannealed 90 C ASMID 648 HOT, 1.82 MPa, 6.4 mm, unannealed 10 U.7468 U.7468 Relative Temp Index, Mech w/limpact 7 ASMID 648 U.7468 Relative Temp Index, Mech w/limpact 1 S		63	MPa	ASTM D 638
Tensile Strain, Vid. Type 1.50 mm/min 4 \$ ASTM D 638 Tensile Strain, brk, Type 1.50 mm/min 80 % ASTM D 638 Tensile Modulus, 50 mm/min 3000 MPa ASTM D 638 Flexural Modulus, 1.3 mm/min, 50 mm span 94 MPa ASTM D 790 IEveural Modulus, 1.3 mm/min, 50 mm span 96 MPa ASTM D 790 IMPACT V ASTM D 256 ASTM D 256 Instrumented Impact, Total Energy, 23°C 50 JIm ASTM D 256 Instrumented Impact Total Energy, 30°C 51 J C ASTM D 1525 Instrumented Impact Total Energy, 30°C 99 **C ASTM D 1525 Instrumented Impact Total Energy, 30°C 99 **C ASTM D 1525 Instrumented Impact Total Energy, 30°C 99 **C ASTM D 1526 Instrumented Impact Total Energy, 30°C 99 **C ASTM D 1526 Instrumented Impact Total Energy, 30°C 90 **C ASTM D 648 Instrumented Impact Total Energy, 30°C 90 **C ASTM D 648 Instrumented Impact Total Energy, 30°C<				
Tensile Strain, brk, Type I, 50 mm/min 80 \$M ASTM D 638 Tensile Modulus, 50 mm/min 3000 MrBa ASTM D 638 Flexural Modulus, 13 mm/min, 50 mm span 94 MrBa ASTM D 790 Instrumental Impact Total Energy, 23°C 50 I/m ASTM D 256 Instrumental Impact Total Energy, 23°C 51 J ASTM D 3763 INSTRUMENTAL ENERGY, 23°C 51 ASTM D 3763 ASTM D 3763 INSTRUMENTAL ENERGY, 23°C 52 ASTM D 3763 ASTM D 484 INSTRUMENTAL ENERGY, 23°C ASTM D 484 ASTM D 484 INSTRUMENTAL ENERGY, 23°C ASTM D 484 ASTM D 484 INSTRUMENTAL ENERGY, 23°C ASTM D 484 ASTM D 484 INSTRUMENTAL E				
Fersile Modulus, 50 mm/min 3000 MPa ASTM D 638 Flexural Stress, yld, 1.3 mm/min, 50 mm span 94 MPa ASTM D 790 Flexural Modulus, 1.3 mm/min, 50 mm span 2620 MPa ASTM D 790 IMPACT STM D 790 ASTM D 256 Izod Impact, notched, 23°C 550 J Jm ASTM D 256 Instrumented Impact Total Energy, 23°C 51 J m ASTM D 3763 Instrumented Impact Total Energy, 23°C 51 J m ASTM D 3763 THEKML V ASTM D 636 ASTM D 636 HDT, 1.82 MPa, 3.2 mm, unannealed 83 °C ASTM D 648 HDT, 1.82 MPa, 6.4 mm, unannealed 99 °C ASTM D 648 Relative Temp Index, Elec 80 °C ASTM D 648 Relative Temp Index, Mech w/impact 80 °C U 1.468 Relative Temp Index, Mech w/impact 80 °C ASTM D 679 Relative Temp Index, Mech w/impact 19 °C ASTM D 79 Mod Shrinkage, flow, 3.2 mm 51 19 Mm ASTM D 79	,			
Flexural Stress, yid, 1.3 mm/min, 50 mm span 94 MPa ASTM D 790 Flexural Modulus, 1.3 mm/min, 50 mm span 620 MPa ASTM D 790 INPACT Izod Impact, notched, 23°C 550 J /m ASTM D 256 Instrumented Impact Total Energy, 23°C 51 J /m ASTM D 3763 Instrumented Impact Total Energy, 30°C 51 J /m ASTM D 3763 THERMAL V ASTM D 152 ASTM D 3763 HDT, 1.82 MPa, 3.64 mm, unannealed 99 °C ASTM D 648 HDT, 0.45 MPa, 6.4 mm, unannealed 98 °C ASTM D 648 HDT, 1.82 MPa, 6.4 mm, unannealed 90 °C ASTM D 648 Relative Temp Index, Mech w/Impact 90 °C U.746B Relative Temp Index, Mech w/Impact 19 °C W.746B Melative Temp Index, Mech w/Impact 19 °C ASTM D 570 Multipack, Mech w/Impact 1.9 °C ASTM D 570 Multipack, Mech w/Impact 1.9 °C ASTM D 570 Multipack, Mech w/Impact <td></td> <td></td> <td></td> <td></td>				
Flexural Modulus, 1.3 mm/min, 50 mm span 2602 MP2 ASTM D 790 IMPACT Variable Impact, notched, 23°C 550 J/m ASTM D 256 Instrumented Impact Total Energy, 23°C 51 J ASTM D 3763 Instrumented Impact Total Energy, 23°C 51 J ASTM D 3763 ITHERMAL V X ASTM D 1525 HDT, 1.82 MPa, 3.2mm, unannealed 99 °C ASTM D 648 HDT, 1.82 MPa, 6.4 mm, unannealed 98 °C ASTM D 648 HDT, 1.82 MPa, 6.4 mm, unannealed 99 °C ASTM D 648 Relative Temp Index, Blech Wilmpact 90 °C ASTM D 648 Relative Temp Index, Mech wilmpact 70 C ASTM D 648 Relative Temp Index, Mech wilmpact 70 C U 7468 Relative Temp Index, Mech wilmpact 19 °C M 750 M 750 Relative Temp Index, Mech wilmpact 19 °C ASTM D 792 M 750 Water Absorption, 24 hours 19 °C ASTM D 792 M 750 M				
IMPACT IZO Impact, notched, 23°C 550 J/m ASTM D 256 Instrumented Impact Total Energy, 23°C 51 J ASTM D 3763 Instrumented Impact Total Energy, 23°C 51 J ASTM D 3763 Instrumented Impact Total Energy, 23°C 51 J ASTM D 3763 Instrumented Impact Total Energy, 23°C 51 S ASTM D 3763 Instrumented Impact Total Energy, 23°C 51 S ASTM D 3763 Instrumented Impact Total Energy, 23°C 51 S ASTM D 3763 Instrumented Impact Total Energy, 23°C 9 C ASTM D 3763 Instrumented Impact Method (35) 9 C ASTM D 58 HDT, 1.82 MPa, 3.2mm, unannealed 9 C ASTM D 648 Relative Temp Index, Elec 80 C ASTM D 648 Relative Temp Index, Mech w// impact 70 C Q C Relative Temp Index, Mech w// impact 71 9 ASTM D 792 ASTM D 792 Water Absorption, 24 hours 1.9 9 ASTM D 792 ASTM D 792	, , , , , , , , , , , , , , , , , , , ,			
Ize of Impact, notched, 23°C 550 J/m ASTM D 256 Instrumented Impact Total Energy, 23°C 51 J ASTM D 3763 THERMAL Vicat Softening Femp, Rate B/50 99 °C ASTM D 1525 HDT, 1.82 MPa, 3.2mm, unannealed 83 °C ASTM D 648 HDT, 0.45 MPa, 6.4 mm, unannealed 99 °C ASTM D 648 HDT, 1.82 MPa, 6.4 mm, unannealed 90 °C ASTM D 648 HDT, 1.82 MPa, 6.4 mm, unannealed 90 °C ASTM D 648 Relative Temp Index, Mech w/impact 70 °C ASTM D 648 Relative Temp Index, Mech w/impact 70 °C U.7 468 Relative Temp Index, Mech w/impact 10 °C ASTM D 792 Water Absorption, 24 hours 119 °C ASTM D 792 Water Absorption, 24 hours 0.4 -0.6 % ASTM D 792 Mater Absorption, 24 hours 5 ASTM D 792 Mater Absorption, 24 hours SCM Compan	·	2020	IVII G	701W D 730
Instrumented Impact Total Energy, 23°C 51 J ASTM D 3763 Instrumented Impact Total Energy, -30°C 51 J ASTM D 3763 THERMAL Vicat Softening Temp, Rate B/50 99 °C ASTM D 648 HDT, 1.82 MPa, 3.2mm, unannealed 83 °C ASTM D 648 HDT, 0.45 MPa, 6.4 mm, unannealed 99 °C ASTM D 648 HDT, 1.82 MPa, 6.4 mm, unannealed 90 °C ASTM D 648 HDT, 1.82 MPa, 6.4 mm, unannealed 90 °C ASTM D 648 Relative Temp Index, Mech w/Impact 70 °C U.746B Relative Temp Index, Mech w/Impact 70 °C U.746B Relative Temp Index, Mech w/Impact 70 °C U.746B Relative Temp Index, Mech w/Impact 119 °C ASTM D 792 Water Absorption, 24 hours 1.19 °C ASTM D 570 Mold Shrinkage, flow, 3.2 mm 04 – 0.6 % ASTM D 570 Melt Flow Rate, 260°C/2.16 kgf 1.E+15 Ohm IEC 60093 Surface Resistivity, ROA<		550	Um	ASTM D 256
Instrumented Impact Total Energy, -30°C 51 J ASTM D 3763 THERMAL Vicat Softening Temp, Rate B/50 99 °C ASTM D 1525 HDT, 1.82 MPa, 3.2mm, unannealed 83 °C ASTM D 648 HDT, 1.82 MPa, 6.4 mm, unannealed 98 °C ASTM D 648 HDT, 1.82 MPa, 6.4 mm, unannealed 90 °C ASTM D 648 Relative Temp Index, Mech w/impact 80 °C U.7468 Relative Temp Index, Mech w/impact 80 °C U.7468 Relative Temp Index, Mech w/o impact 80 °C U.7468 Relative Temp Index, Mech w/o impact 80 °C U.7468 Relative Temp Index, Mech w/o impact 80 °C W.746B Relative Temp Index, Mech w/o impact 1.19 °C ASTM D 792 Water Absorption, 24 hours 0.11 % ASTM D 570 Mold Shrinkage, flow, 3.2 mm 0.4 − 0.6 % ASTM D 792 BetCECTRICL V X ASTM D 1238 Surface Resistivity, ROA 1.E+15 </td <td>•</td> <td></td> <td>,</td> <td></td>	•		,	
THERMAL Vicat Softening Temp, Rate B/50 99 °C ASTM D 1525 HDT, 1.82 MPa, 3.2mm, unannealed 83 °C ASTM D 648 HDT, 0.45 MPa, 6.4 mm, unannealed 98 °C ASTM D 648 HDT, 1.82 MPa, 6.4 mm, unannealed 90 °C ASTM D 648 Relative Temp Index, Elec 80 °C U. 7468 Relative Temp Index, Mech w/jmact 70 °C U. 7468 Relative Temp Index, Mech w/jo impact 80 °C U. 7468 Relative Temp Index, Mech w/jo impact 80 °C U. 7468 Welst Flow State, Absorption, 24 hours 1.19 S ASTM D 792 STM D 792 Water Absorption, 24 hours 0.11 \$ ASTM D 570 SM D 1238 Melt Flow Rate, 260°C/2.16 kgf 21.5 y 0 min STM D 1238 ELECTRICAL V IEC 60093 STM D 1238 Surface Resistivity, ROA > 1.E+15 Ohm-cm IEC 60093 Dielectric Strength, in oil, 3.2 mm 17 K/mm IEC 60250 Relative Permittivity, 1 MHz				
Vicat Softening Temp, Rate B/50 99 °C ASTM D 1525 HDT, 1.82 MPa, 3.2mm, unannealed 83 °C ASTM D 648 HDT, 0.45 MPa, 6.4 mm, unannealed 98 °C ASTM D 648 HDT, 1.82 MPa, 6.4 mm, unannealed 90 °C ASTM D 648 Relative Temp Index, Mech w/impact 80 °C U.7468 Relative Temp Index, Mech w/o impact 80 °C U.746B PHYSICAL V U.746B V Water Absorption, 24 hours 1.19 ≤ ASTM D 792 Water Absorption, 24 hours 1.19 ≤ ASTM D 792 Water Absorption, 24 hours 1.2 % ASTM D 792 Water Absorption, 24 hours 1.2 % ASTM D 792 Water Absorption, 24 hours 2.1 % ASTM D 792 Water Absorption, 24 hours 2.1 % ASTM D 792 Water Absorption, 24 hours 2.1 % ASTM D 792 Water Absorption, 24 hours 2.1 % ASTM D 792 Water Absorption, 24 hours <th< td=""><td></td><td>31</td><td>J</td><td>M311VI D 3703</td></th<>		31	J	M311VI D 3703
HDT, 1.82 MPa, 3.2mm, unannealed HDT, 0.45 MPa, 6.4 mm, unannealed HDT, 0.45 MPa, 6.4 mm, unannealed HDT, 1.82 MPa, 6.4 mm, unannealed Relative Temp Index, Elec Relative Temp Index, Mech w/impact Relative Temp Index, Mech w/impact Relative Temp Index, Mech w/o impact Relative Temp Index, Mech w/o impact Begriff Gravity Specific Gravity Mold Shrinkage, flow, 3.2 mm Mold Shrinkage, f			0.0	
HDT, 0.45 MPa, 6.4 mm, unannealed 98 °C ASTM D 648 HDT, 1.82 MPa, 6.4 mm, unannealed 90 °C ASTM D 648 Relative Temp Index, Elec 80 °C UL 746B Relative Temp Index, Mech w/impact 70 °C UL 746B Relative Temp Index, Mech w/o impact 80 °C UL 746B PHYSICAL Specific Gravity 1.99 - ASTM D 792 Water Absorption, 24 hours 9.1 4.0 % ASTM D 570 Mold Shrinkage, flow, 3.2 mm 0.4 − 0.6 % ASIM D 1928 BLECTRICAL y10 min ASTM D 1238 ASTM D 1238 ELECTRICAL Volume Resistivity, ROA >1.£+15 Ohm -cm IEC 60093 Surface Resistivity, ROA >1.£+15 Ohm -cm IEC 60250 Relative Permittivity, 1 MHz 2.7 √/mm IEC 60250 Dissipation Factor, 50/60 Hz 0.006 -2 IEC 60250 Blative Permittivity, 50/60 Hz 2.7 -2 IEC 60250	- ' '			
HDT, 1.82 MPa, 6.4 mm, unannealed 90 °C ASTM D 648 Relative Temp Index, Elec 80 °C U. 746B Relative Temp Index, Mech w/impact 70 °C U. 746B Relative Temp Index, Mech w/o impact 80 °C U. 746B PHYSICAL Specific Gravity 1.19 ~ ASTM D 792 Water Absorption, 24 hours 0.11 % ASTM D 570 Mold Shrinkage, flow, 3.2 mm 0.4 − 0.6 % ASTM D 1238 BeLECTRICAL g/10 min ASTM D 1238 ASTM D 28 ELECTRICAL University > 1.E+15 Ohm-cm EC 60093 Surface Resistivity, ROA > 1.E+15 Ohm EC 60093 Dielectric Strength, in oil, 3.2 mm 17 k//mm EC 6024-1 Relative Permittivity, 1 MHz 2.7 - EC 60250 Dissipation Factor, 50/60 Hz 0.006 - EC 60250 Belative Permittivity, 50/60 Hz 2.7 - EC 60250				
Relative Temp Index, Elec 80 °C UL 746B Relative Temp Index, Mech w/impact 70 °C UL 746B Relative Temp Index, Mech w/o impact 80 °C UL 746B PHYSICAL Specific Gravity 1.19 - ASTM D 792 Water Absorption, 24 hours 0.11 % ASTM D 570 Mold Shrinkage, flow, 3.2 mm 0.4 - 0.6 % SABIC method Melt Flow Rate, 260°C/2.16 kgf 21.5 0 mm ASTM D 1238 ELECTRICAL Volume Resistivity, ROA >1.E+15 Ohm-cm IEC 60093 Surface Resistivity, ROA 21.E+15 Ohm IEC 60093 Dielectric Strength, in oil, 3.2 mm 17 V/mm IEC 60243-1 Relative Permittivity, 1 MHz 2.7 2 EC 60250 Dissipation Factor, 50/60 Hz 0.006 -2 IEC 60250 Belative Permittivity, 50/60 Hz 2.7 -2 IEC 60250				
Relative Temp Index, Mech w/impact 70 °C UL 746B Relative Temp Index, Mech w/o impact 80 °C UL 746B PHYSICAL Specific Gravity 1.19 - ASTM D 792 Water Absorption, 24 hours 0.11 % ASTM D 570 Mold Shrinkage, flow, 3.2 mm 0.4 – 0.6 % SABIC method Melt Flow Rate, 260°C/2.16 kgf 21.5 y ASTM D 1238 ELECTRICAL Volume Resistivity ASTM D 1238 ASTM D 1238 Surface Resistivity, ROA >1.£+15 Ohm cm IEC 60093 Surface Resistivity, ROA >1.£+15 W/mm IEC 60093 Relative Permittivity, 1 MHz 2.7 KV/mm IEC 60250 Dissipation Factor, 50/60 Hz 0.004 - IEC 60250 Dissipation Factor, 1 MHz 0.006 - IEC 60250 Relative Permittivity, 50/60 Hz 2.7 - IEC 60250				
Relative Temp Index, Mech w/o impact 80 °C UL 746B PHYSICAL Specific Gravity 1.19 - ASTM D 792 Water Absorption, 24 hours 0.11 % ASTM D 570 Mold Shrinkage, flow, 3.2 mm 0.4 – 0.6 % ASIM D 1238 ELECTRICAL Volume Resistivity 1.E+15 Ohm-cm IEC 60093 Surface Resistivity, ROA 1.E+15 Ohm IEC 60093 Dielectric Strength, in oil, 3.2 mm 17 W//mm IEC 60250 Relative Permittivity, 1 MHz 2.7 . IEC 60250 Dissipation Factor, 50/60 Hz 0.004 . IEC 60250 Dissipation Factor, 1 MHz 0.006 . IEC 60250 Relative Permittivity, 50/60 Hz 2.7 . IEC 60250				
PHYSICAL Specific Gravity 1.19 - ASTM D 792 Water Absorption, 24 hours 0.11 % ASTM D 570 Mold Shrinkage, flow, 3.2 mm 0.4 - 0.6 % SABIC method Melt Flow Rate, 260°C/2.16 kgf 21.5 g/10 min ASTM D 1238 ELECTRICAL Volume Resistivity >1.E+15 Ohm-cm IEC 60093 Surface Resistivity, ROA >1.E+15 Ohm IEC 60093 Dielectric Strength, in oil, 3.2 mm 17 kV/mm IEC 60250 Relative Permittivity, 1 MHz 2.7 EC 60250 IEC 60250 Dissipation Factor, 50/60 Hz 0.004 - IEC 60250 Belative Permittivity, 50/60 Hz 2.7 EC 60250 IEC 60250	. , .			
Specific Gravity 1.19 - ASTM D 792 Water Absorption, 24 hours 0.11 % ASTM D 570 Mold Shrinkage, flow, 3.2 mm 0.4 - 0.6 % SABIC method Melt Flow Rate, 260°C/2.16 kgf 21.5 y Norman ASTM D 1238 ELECTRICAL Volume Resistivity, ROA >1.E+15 Ohm-cm IEC 60093 Dielectric Strength, in oil, 3.2 mm 17 W/mm IEC 60243-1 Relative Permittivity, 1 MHz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.004 - IEC 60250 Belative Permittivity, 50/60 Hz 2.7 - IEC 60250	Relative Temp Index, Mech w/o impact	80	°C	UL 746B
Water Absorption, 24 hours 0.11 % ASTM D 570 Mold Shrinkage, flow, 3.2 mm 0.4 – 0.6 % SABIC method Melt Flow Rate, 260°C/2.16 kgf 21.5 g/10 min ASTM D 1238 ELECTRICAL Volume Resistivity >1.E+15 Ohm-cm IEC 60093 Surface Resistivity, ROA >1.E+15 Ohm IEC 60293 Dielectric Strength, in oil, 3.2 mm 17 kV/mm IEC 60243-1 Relative Permittivity, 1 MHz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.006 - IEC 60250 Dissipation Factor, 1 MHz 0.006 - IEC 60250 Relative Permittivity, 50/60 Hz 2.7 - IEC 60250	PHYSICAL			
Mold Shrinkage, flow, 3.2 mm 0.4 – 0.6 % SABIC method Melt Flow Rate, 260°C/2.16 kgf 21.5 g/10 min ASTM D 1238 ELECTRICAL Volume Resistivity >1.E+15 Ohm-cm IEC 60093 Surface Resistivity, ROA >1.E+15 Ohm IEC 60093 Dielectric Strength, in oil, 3.2 mm 17 kV/mm IEC 60243-1 Relative Permittivity, 1 MHz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.006 - IEC 60250 Dissipation Factor, 1 MHz 0.006 - IEC 60250 Relative Permittivity, 50/60 Hz 2.7 - IEC 60250	Specific Gravity	1.19	-	ASTM D 792
Melt Flow Rate, 260°C/2.16 kgf 21.5 g/10 min ASTM D 1238 ELECTRICAL Volume Resistivity Discontinuo on the colombia >1.E+15 Ohm-cm IEC 60093 Surface Resistivity, ROA >1.E+15 Ohm IEC 60093 Dielectric Strength, in oil, 3.2 mm 17 kV/mm IEC 60243-1 Relative Permittivity, 1 MHz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.006 - IEC 60250 Relative Permittivity, 50/60 Hz 2.7 - IEC 60250	Water Absorption, 24 hours	0.11	%	ASTM D 570
ELECTRICAL Volume Resistivity >1.E+15 Ohm-cm IEC 60093 Surface Resistivity, ROA >1.E+15 Ohm IEC 60093 Dielectric Strength, in oil, 3.2 mm 17 kV/mm IEC 60243-1 Relative Permittivity, 1 MHz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.004 - IEC 60250 Dissipation Factor, 1 MHz 0.006 - IEC 60250 Relative Permittivity, 50/60 Hz 2.7 - IEC 60250	Mold Shrinkage, flow, 3.2 mm	0.4 – 0.6	%	SABIC method
Volume Resistivity >1.E+15 Ohm-cm IEC 60093 Surface Resistivity, ROA >1.E+15 Ohm IEC 60093 Dielectric Strength, in oil, 3.2 mm 17 kV/mm IEC 60243-1 Relative Permittivity, 1 MHz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.004 - IEC 60250 Dissipation Factor, 1 MHz 0.006 - IEC 60250 Relative Permittivity, 50/60 Hz 2.7 - IEC 60250	Melt Flow Rate, 260°C/2.16 kgf	21.5	g/10 min	ASTM D 1238
Surface Resistivity, ROA >1.E+15 Ohm IEC 60093 Dielectric Strength, in oil, 3.2 mm 17 W/mm IEC 60243-1 Relative Permittivity, 1 MHz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.004 - IEC 60250 Dissipation Factor, 1 MHz 0.006 - IEC 60250 Relative Permittivity, 50/60 Hz 2.7 - IEC 60250	ELECTRICAL			
Dielectric Strength, in oil, 3.2 mm 17 kV/mm IEC 60243-1 Relative Permittivity, 1 MHz 2.7 - IEC 60250 Dissipation Factor, 50/60 Hz 0.004 - IEC 60250 Dissipation Factor, 1 MHz 0.006 - IEC 60250 Relative Permittivity, 50/60 Hz 2.7 IEC 60250	Volume Resistivity	>1.E+15	Ohm-cm	IEC 60093
Relative Permittivity, 1 MHz 2.7 IEC 60250 Dissipation Factor, 50/60 Hz 0.004 IEC 60250 Dissipation Factor, 1 MHz 0.006 - IEC 60250 Relative Permittivity, 50/60 Hz 2.7 IEC 60250	Surface Resistivity, ROA	>1.E+15	Ohm	IEC 60093
Dissipation Factor, 50/60 Hz 0.004 - IEC 60250 Dissipation Factor, 1 MHz 0.006 - IEC 60250 Relative Permittivity, 50/60 Hz 2.7 - IEC 60250	Dielectric Strength, in oil, 3.2 mm	17	kV/mm	IEC 60243-1
Dissipation Factor, 1 MHz 0.006 - IEC 60250 Relative Permittivity, 50/60 Hz 2.7 - IEC 60250	Relative Permittivity, 1 MHz	2.7	-	IEC 60250
Relative Permittivity, 50/60 Hz 2.7 IEC 60250	Dissipation Factor, 50/60 Hz	0.004	-	IEC 60250
	Dissipation Factor, 1 MHz	0.006	-	IEC 60250
FLAME CHARACTERISTICS	Relative Permittivity, 50/60 Hz	2.7	-	IEC 60250
	FLAME CHARACTERISTICS			



PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
UL Recognized, 94V-2 Flame Class Rating	0.75	mm	UL 94
UL Recognized, 94V-0 Flame Class Rating	1.5	mm	UL 94
UL Recognized, 94-5VB Rating	2	mm	UL 94
INJECTION MOLDING			
Drying Temperature	80 – 90	°C	
Drying Time	3 – 4	hrs	
Drying Time (Cumulative)	8	hrs	
Maximum Moisture Content	0.04	%	
Melt Temperature	245 – 275	°C	
Nozzle Temperature	245 – 275	°C	
Front - Zone 3 Temperature	245 – 275	°C	
Middle - Zone 2 Temperature	220 – 275	°C	
Rear - Zone 1 Temperature	220 – 255	°C	
Mold Temperature	60 – 80	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	40 – 70	rpm	
Shot to Cylinder Size	30 – 80	%	
Vent Depth	0.038 – 0.076	mm	

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.