

GELOYTM RESIN XTWE480

REGION ASIA

DESCRIPTION

Anti-scratch GELOY grade with excellent weatherability, high flow, and good surface quality. XTWE480 is available in various colours.

TYPICAL PROPERTY VALUES

Revision 20181012

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	50	MPa	ASTM D 638
Tensile Stress, brk, Type I, 50 mm/min	36	MPa	ASTM D 638
Tensile Strain, yld, Type I, 50 mm/min	3	%	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	21	%	ASTM D 638
Tensile Modulus, 50 mm/min	2470	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	70	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	2060	MPa	ASTM D 790
Tensile Stress, yield, 50 mm/min	50	MPa	ISO 527
Tensile Stress, break, 50 mm/min	38	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	3	%	ISO 527
Tensile Strain, break, 50 mm/min	25	%	ISO 527
Tensile Modulus, 1 mm/min	2300	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	70	MPa	ISO 178
Flexural Modulus, 2 mm/min	2410	MPa	ISO 178
Pencil Hardness test, 1kgf	F	-	ASTM D 3363
IMPACT			
Izod Impact, notched, 23°C	49	J/m	ASTM D 256
Izod Impact, notched, -30°C	27	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	6	J	ASTM D 3763
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	3	kJ/m ²	ISO 180/1A
THERMAL			
Vicat Softening Temp, Rate B/50	78	°C	ASTM D 1525
HDT, 1.82 MPa, 6.4 mm, unannealed	73	°C	ASTM D 648
CTE, -40°C to 40°C, flow	8.1E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	8.8E-05	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	79	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	73	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.15	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.3 – 0.6	%	SABIC method
Melt Flow Rate, 220°C/10.0 kgf	38	g/10 min	ASTM D 1238
Density	1.15	g/cm ³	ISO 1183
PROFILE EXTRUSION			

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Temperature	75 – 85	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	200 – 230	°C	
Barrel - Zone 1 Temperature	205 – 220	°C	
Barrel - Zone 2 Temperature	210 – 225	°C	
Barrel - Zone 3 Temperature	215 – 225	°C	
Barrel - Zone 4 Temperature	215 – 225	°C	
Hopper Temperature	60 – 80	°C	
Adapter Temperature	200 – 225	°C	
Die Temperature	210 – 225	°C	
Calibrator Temperature	50 – 70	°C	

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