

FLEX NORYL™ RESIN WCP761

REGION ASIA

DESCRIPTION

Flexible NORYL injection molding grade. Low specific gravity with very good non-halogenated flame retardant performance. Developed for evaluation in overmolding applications such as plugs, strain relief's, and connectors. UL94 V-0 performance with good processability.

TYPICAL PROPERTY VALUES

Revision 20180905

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 50 mm/min	7	MPa	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	165	%	ASTM D 638
Flexural Modulus, 12.5 mm/min, 100 mm span	50	MPa	ASTM D 790
Hardness, Shore A, 30S reading	78	-	ASTM D 2240
Tensile Stress, break, 50 mm/min	8	MPa	ISO 527
Tensile Strain, break, 50 mm/min	165	%	ISO 527
Flexural Modulus, 12.5 mm/min	40	MPa	ISO 178
Tear strength	16	N/mm	ISO 6383
IMPACT			
Brittleness Temperature	<-40	°C	ASTM D 746
PHYSICAL			
Specific Gravity	1.05	-	ASTM D 792
Water Absorption, 23°C/48hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	1.08	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	1.1	%	ASTM D 955
Melt Flow Rate, 210°C/5 kgf	14.5	g/10 min	ASTM D 1238
Melt Flow Rate, 250°C/2.16 kgf	20	g/10 min	ASTM D 1238
ELECTRICAL			
Volume Resistivity	1.3E+16	Ohm-cm	ASTM D 257
Dielectric strength in oil, 2.0mm	25	kV/mm	IEC 60243-1
Relative Permittivity, 1 MHz	2.5	-	IEC 60250
Dissipation Factor, 1 MHz	0.002	-	IEC 60250
Comparative Tracking Index	600	V	IEC 60112
FLAME CHARACTERISTICS			
UL Recognized, 94V-0 Flame Class Rating	6	mm	UL 94
Glow Wire Flammability Index 960°C, passes at	3	mm	IEC 60695-2-12
Glow Wire Ignitability Temperature, 3.0 mm	775	°C	IEC 60695-2-13
Oxygen Index (LOI)	24	%	ISO 4589
INJECTION MOLDING			
Drying Temperature	65 – 75	°C	
Drying Time	4 – 6	hrs	
Drying Time (Cumulative)	8	hrs	
Maximum Moisture Content	0.01	%	
Melt Temperature	220 – 250	°C	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Nozzle Temperature	220 – 250	°C	
Front - Zone 3 Temperature	220 – 250	°C	
Middle - Zone 2 Temperature	210 – 240	°C	
Rear - Zone 1 Temperature	180 – 220	°C	
Mold Temperature	40 – 60	°C	
Back Pressure	3 – 10	MPa	
Screw Speed	30 – 80	rpm	
Shot to Cylinder Size	30 – 70	%	
Vent Depth	0.03 – 0.05	mm	

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