NORYL™ Resin RN0206

REGION ASIA

DESCRIPTION

NORYL RN0206 resin is an non-reinforced blend of polyphenylene ether (PPE) + high impact polystyrene (HIPS). This Post Consumer Recycle (PCR) based injection moldable resin containing minimum 10% PCR styrenic series resin content and is available only in black.

GENERAL INFORMATION	
Features	Hydrolytic Stability, Low Warpage, Amorphous, Low Shrinkage, Low Moisture Absorption, Low Specific Gravity, Mechanical Recycling, Dimensional stability, No PFAS intentionally added
Fillers	Unreinforced
Polymer Types	Polyphenylene Ether + PS (PPE+PS)
Processing Techniques	Injection Molding

INDUSTRY	SUB INDUSTRY
Industrial	Electrical

TYPICAL PROPERTY VALUES

Revision 20241016

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Stress, yld, Type I, 50 mm/min	73	MPa	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	14	%	ASTM D638
Flexural Stress, yld, 2.6 mm/min, 100 mm span	100	MPa	ASTM D790
Flexural Modulus, 2.6 mm/min, 100 mm span	2500	MPa	ASTM D790
IMPACT [1]			
Izod Impact, notched, 23°C	180	J/m	ASTM D256
THERMAL [1]			
HDT, 1.82 MPa, 6.4 mm, unannealed	118	°C	ASTM D648
Ball Pressure Test, approximate maximum	120	°C	IEC 60695-10-2
Relative Temp Index, Elec [2]	125	°C	UL 746B
Relative Temp Index, Mech w/impact [2]	125	°C	UL 746B
Relative Temp Index, Mech w/o impact [2]	125	°C	UL 746B
PHYSICAL [1]			
Specific Gravity	1.1	-	ASTM D792
Melt Flow Rate, 250°C/10.0 kgf	5	g/10 min	ASTM D1238
ELECTRICAL [1]			
Dielectric Strength, in air, 3.2 mm	27	kV/mm	ASTM D149
Comparative Tracking Index (UL) {PLC}	2	PLC Code	UL 746A
Hot-Wire Ignition (HWI), PLC 1	≥3	mm	UL 746A
FLAME CHARACTERISTICS [2]			
UL Yellow Card Link	E207780-100850147	-	-
UL Recognized, 94V-0 Flame Class Rating	≥0.75	mm	UL 94

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
INJECTION MOLDING [3]			
Drying Temperature	105 – 110	°C	
Drying Time	3 – 4	Hrs	
Drying Time (Cumulative)	8	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	275 – 305	°C	
Nozzle Temperature	275 – 305	°C	
Front - Zone 3 Temperature	265 – 305	°C	
Middle - Zone 2 Temperature	255 – 300	°C	
Rear - Zone 1 Temperature	245 – 295	°C	
Mold Temperature	70 – 100	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	20 – 100	rpm	
Shot to Cylinder Size	30 – 70	%	
Vent Depth	0.038 – 0.051	mm	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

(3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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