NORYL™ RESIN RN0206

REGION ASIA

DESCRIPTION

RN0206 is an unfilled Post Consumer Recycle (PCR) based injection moldable modified polyphenylene ether resin comprising at least 10% PCR styrenic series resin content. Available in black only.

TYPICAL PROPERTY VALUES

Revision 20190828

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	73	MPa	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	14	%	ASTM D 638
Flexural Stress, yld, 2.6 mm/min, 100 mm span	100	MPa	ASTM D 790
Flexural Modulus, 2.6 mm/min, 100 mm span	2500	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	180	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 6.4 mm, unannealed	118	°C	ASTM D 648
Ball Pressure Test, approximate maximum	120	°C	IEC 60695-10-2
Relative Temp Index, Elec [1]	125	°C	UL 746B
Relative Temp Index, Mech w/impact [1]	125	°C	UL 746B
Relative Temp Index, Mech w/o impact [1]	125	°C	UL 746B
PHYSICAL			
Specific Gravity	1.1	-	ASTM D 792
Melt Flow Rate, 250°C/10.0 kgf	5	g/10 min	ASTM D 1238
ELECTRICAL			
Dielectric Strength, in air, 3.2 mm	27	kV/mm	ASTM D 149
Comparative Tracking Index (UL) {PLC}	2	PLC Code	UL 746A
Hot-Wire Ignition (HWI), PLC 1	≥3	mm	UL 746A
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E207780-100850147	-	-
UL Recognized, 94V-0 Flame Class Rating	≥0.75	mm	UL 94
INJECTION MOLDING			
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	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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) 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.

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