

NORYL™ RN0401 resin

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

NORYL RN0401 resin is an unfilled Post Consumer Recycle (PCR) based injection moldable modified polyphenylene ether blend comprising at least 20% PCR content. Available in black only.

General Information			
Recycled Content	Yes, 20%		
RoHS Compliance	RoHS compliance		
Appearance	Black		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.12	g/cm ³	ASTM D792
--	1.11	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	30	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	30.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2100	MPa	ASTM D638
--	2200	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	55.0	MPa	ASTM D638
Yield	50.0	MPa	ISO 527-2/50
Fracture ³	40.0	MPa	ASTM D638
Fracture	35.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ⁴	3.0	%	ASTM D638
Yield	3.0	%	ISO 527-2/50
Fracture ⁵	15	%	ASTM D638
Fracture	15	%	ISO 527-2/50
Flexural Modulus			
50.0mm span ⁶	2500	MPa	ASTM D790
-- ⁷	2300	MPa	ISO 178
Flexural Stress			
--	75.0	MPa	ISO 178
Yield, 50.0mm span ⁸	80.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	100	J/m	ASTM D256
23°C ⁹	9.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, unannealed, 3.20mm	70.0	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹⁰	70.0	°C	ISO 75-2/Af
Vicat Softening Temperature	94.0	°C	ISO 306/B120
RTI Elec	65.0	°C	UL 746
RTI Imp	65.0	°C	UL 746
RTI	65.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (3.20 mm, in Oil)	25	kV/mm	ASTM D149
Arc Resistance ¹¹	PLC 7		ASTM D495
Comparative Tracking Index (CTI)	PLC 2		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 3		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (2.00 mm, Testing by SABIC)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	70.0 - 80.0	°C	
Drying Time	2.0 - 4.0	hr	
Processing (Melt) Temp	240 - 270	°C	
Mold Temperature	60.0 - 80.0	°C	
NOTE			
1.	5.0 mm/min		
2.	Type 1, 50mm/min		
3.	Type 1, 50mm/min		
4.	Type 1, 50mm/min		
5.	Type 1, 50mm/min		
6.	1.3 mm/min		
7.	2.0 mm/min		
8.	1.3 mm/min		
9.	80*10*4		
10.	80*10*4 mm		
11.	Tungsten electrode		

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