

NORYL™ RN0401 resin

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

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

General Information			
UL YellowCard	E207780-100723155		
Recycled Content	Yes, 20%		
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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

