

NORYL™ NHP5054 resin

Polyphenylene Ether

SABIC Innovative Plastics Asia Pacific

Message:

NORYL™ NHP5054 resin is a Polyphenylene Ether (PPE) material. It is available in Asia Pacific for injection molding. Primary attribute of NORYL™ NHP5054 resin: Flame Rated.

General Information			
UL YellowCard	E207780-101793092		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.30	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/10.0 kg)	24	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	120	MPa	ASTM D638
Tensile Elongation ² (Break)	2.5	%	ASTM D638
Flexural Modulus ³ (100 mm Span)	6000	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 100 mm Span)	150	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.40 mm)	120	°C	ASTM D648
RTI Elec	125	°C	UL 746
RTI Imp	115	°C	UL 746
RTI Str	125	°C	UL 746
Flammability	Nominal Value	Test Method	
Flame Rating (0.750 mm)	V-0	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	104 to 110	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	30 to 70	%	
Rear Temperature	249 to 299	°C	
Middle Temperature	260 to 304	°C	
Front Temperature	271 to 310	°C	
Nozzle Temperature	282 to 310	°C	
Processing (Melt) Temp	282 to 310	°C	
Mold Temperature	76.7 to 104	°C	

Back Pressure	0.345 to 0.689	MPa
Screw Speed	20 to 100	rpm
NOTE		
1.	Type I, 5.0 mm/min	
2.	Type I, 5.0 mm/min	
3.	2.6 mm/min	
4.	2.6 mm/min	

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