

NORYL™ SE100HX resin

Polyphenylene Ether + PS

SABIC Innovative Plastics

Message:

Improved productivity and reliability. Nonchlorinated, nonbrominated FR.

General Information			
UL YellowCard	E121562-221213		
Additive	Flame Retardant		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm ³	ASTM D792
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.50 to 0.70	%	
Across Flow ¹	0.50 to 0.70	%	
Water Absorption (24 hr)	0.060	%	ASTM D570
Outdoor Suitability	f1		UL 746C
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ²			ASTM D638
Yield	61.4	MPa	
Break	46.9	MPa	
Tensile Elongation ³			ASTM D638
Yield	7.5	%	
Break	21	%	
Flexural Modulus ⁴ (100 mm Span)	2340	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 100 mm Span)	89.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	91	J/m	
23°C	230	J/m	
Instrumented Dart Impact			ASTM D3763
-30°C, Energy at Peak Load	3.28	J	
23°C, Energy at Peak Load	31.6	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	104	°C	

1.8 MPa, Unannealed, 6.40 mm	94.4	°C	
RTI Elec	95.0	°C	UL 746
RTI Imp	80.0	°C	UL 746
RTI Str	95.0	°C	UL 746
Electrical	Nominal Value		Test Method
Arc Resistance ⁶	PLC 7		ASTM D495
Comparative Tracking Index (CTI)	PLC 1		UL 746
High Voltage Arc Tracking Rate (HVTR)	PLC 4		UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.47 mm	V-1		
5.99 mm	V-0		
Radiant Panel Listing (UL)	YES		
Injection	Nominal Value	Unit	
Drying Temperature	76.7 to 82.2	°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	216 to 266	°C	
Middle Temperature	227 to 271	°C	
Front Temperature	238 to 277	°C	
Nozzle Temperature	249 to 277	°C	
Processing (Melt) Temp	249 to 277	°C	
Mold Temperature	54.4 to 76.7	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	20 to 100	rpm	
Vent Depth	0.038 to 0.051	mm	
NOTE			
1.	Tensile Bar		
2.	Type I, 50 mm/min		
3.	Type I, 50 mm/min		
4.	2.6 mm/min		
5.	2.6 mm/min		
6.	Tungsten Electrode		

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