

SABIC Innovative Plastics NORYL STN15HF PPE+PS

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polystyrene (PS)

Material Notes:

Automotive interiors. Improved flow characteristics/overall processing economy. 240F DTUL. High impact/good property retention after heat ageing.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-STN15HF-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	46.0 MPa	6670 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	70 %	70 %	Type I, 50 mm/min; ASTM D638
Flexural Yield Strength	69.0 MPa	10000 psi	2.6 mm/min, 100 mm span; ASTM D790
Flexural Modulus	1.99 GPa	289 ksi	2.6 mm/min, 100 mm span; ASTM D790
Izod Impact, Notched	4.53 J/cm	8.49 ft-lb/in	ASTM D256
	2.24 J/cm	4.20 ft-lb/in	ASTM D256
	@Temperature -40.0 Å°C	@Temperature -40.0 Å°F	
Dart Drop, Total Energy	2.50 J/cm	4.68 ft-lb/in	ASTM D256
	@Temperature -20.0 Å°C	@Temperature -4.00 Å°F	
Dart Drop, Total Energy	36.0 J	26.6 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
	24.0 J	17.7 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
	@Temperature -30.0 Å°C	@Temperature -22.0 Å°F	

Thermal Properties	Metric	English	Comments
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Thermal Properties <i>CTE, linear, Parallel to Flow</i>	117 $\mu\text{m/m-}^\circ\text{C}$ Metric	65.0 $\mu\text{in/in-}^\circ\text{F}$ English	Comments ASTM E 831
	@Temperature 0.000 - 100 $^\circ\text{C}$	@Temperature 32.0 - 212 $^\circ\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	118 $^\circ\text{C}$ @Thickness 6.40 mm	244 $^\circ\text{F}$ @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	115 $^\circ\text{C}$ @Thickness 6.40 mm	239 $^\circ\text{F}$ @Thickness 0.252 in	unannealed; ASTM D648

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China