

SABIC Innovative Plastics LNP STAT-KON Noryl_HMC202M PPE+PS

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

Material Notes:

DATA ON BK1005 ONLY.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-STAT-KON-NorylHMC202M-PPEPS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm @Thickness 3.20 mm	0.0010 - 0.0030 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	7.6 g/10 min @Load 5.00 kg, Temperature 300 Â°C	7.6 g/10 min @Load 11.0 lb, Temperature 572 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	86.0 MPa	12500 psi	5 mm/min; ISO 527
	96.0 MPa	13900 psi	Type I, 5 mm/min; ASTM D638
Tensile Strength, Yield	86.0 MPa	12500 psi	5 mm/min; ISO 527
	96.0 MPa	13900 psi	Type I, 5 mm/min; ASTM D638
Elongation at Break	4.1 %	4.1 %	Type I, 5 mm/min; ASTM D638
Elongation at Yield	4.1 %	4.1 %	Type I, 5 mm/min; ASTM D638
Tensile Modulus	7.58 GPa	1100 ksi	5 mm/min; ASTM D638
Flexural Strength	135 MPa	19600 psi	1.3 mm/min, 50 mm span; ASTM D790
	145 MPa	21000 psi	2 mm/min; ISO 178
Flexural Yield Strength	145 MPa	21000 psi	2 mm/min; ISO 178
Flexural Modulus	6.89 GPa	999 ksi	1.3 mm/min, 50 mm span; ASTM D790
	7.15 GPa	1040 ksi	2 mm/min; ISO 178
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256

Mechanical Properties ¹	Metric ¹ /cm	English ¹ /lb/in	Comments ^{1,2}
Izod Impact, Notched (ISO)	4.00 kJ/mÂ²	1.90 ft-lb/inÂ²	80*10*4; ISO 180/1A
Dart Drop, Total Energy	9.00 J @Temperature 23.0 Â°C	6.64 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	13.0 Âµm/m-Â°C @Temperature 23.0 - 150 Â°C	7.22 Âµin/in-Â°F @Temperature 73.4 - 302 Â°F	ISO 11359-2
	61.2 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	34.0 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
CTE, linear, Transverse to Flow	57.0 Âµm/m-Â°C @Temperature 23.0 - 150 Â°C	31.7 Âµin/in-Â°F @Temperature 73.4 - 302 Â°F	ISO 11359-2
	158 Âµm/m-Â°C @Temperature -30.0 - 30.0 Â°C	87.8 Âµin/in-Â°F @Temperature -22.0 - 86.0 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	177 Â°C @Thickness 3.20 mm	351 Â°F @Thickness 0.126 in	unannealed; ASTM D648
	181 Â°C @Thickness 6.40 mm	358 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	177 Â°C	351 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	171 Â°C @Thickness 3.20 mm	340 Â°F @Thickness 0.126 in	unannealed; ASTM D648
	173 Â°C @Thickness 6.40 mm	343 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	180 Â°C	356 Â°F	Rate B/50; ASTM D1525
	180 Â°C	356 Â°F	Rate B/120; ISO 306
UL RTI, Electrical	50.0 Â°C	122 Â°F	UL 746B
UL RTI, Mechanical with Impact	50.0 Â°C	122 Â°F	UL 746B
UL RTI, Mechanical without Impact	50.0 Â°C	122 Â°F	UL 746B

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.49 mm	@Thickness 0.0587 in	UL 94

Electrical Properties	Metric	English	Comments
Surface Resistance	10000 ohm	10000 ohm	ASTM D257

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