

## SABIC Innovative Plastics Noryl HIN120P PPE+HIPS (Europe-Africa-Middle East)

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

### Material Notes:

Noryl HIN120P is designed for selected one layer water-based paint systems. Noryl HIN120P has a Vicat B/120 of 120 Å°C and is targeted. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Noryl-HIN120P-PPEHIPS-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Noryl-HIN120P-PPEHIPS-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0383 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.060 %	0.060 %	23Å°C / 50% RH; ISO 62
Water Absorption at Saturation	0.20 % @Temperature 23.0 Å°C	0.20 % @Temperature 73.4 Å°F	ISO 62
Melt Flow	20 g/10 min @Load 10.0 kg, Temperature 280 Å°C	20 g/10 min @Load 22.0 lb, Temperature 536 Å°F	[cm <sup>3</sup> /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	30.0 MPa	4350 psi	50 mm/min; ISO 527
Tensile Strength, Yield	30.0 MPa	4350 psi	50 mm/min; ISO 527
Elongation at Break	30 %	30 %	50 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	50 mm/min; ISO 527
Tensile Modulus	1.60 GPa	232 ksi	1 mm/min; ISO 527
Flexural Strength	50.0 MPa	7250 psi	2 mm/min; ISO 178
Flexural Modulus	1.60 GPa	232 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	10.0 kJ/m <sup>2</sup> @Temperature -30.0 Å°C	4.76 ft-lb/in <sup>2</sup> @Temperature -22.0 Å°F	80*10*4; ISO 180/1A
	20.0 kJ/m <sup>2</sup> @Temperature 23.0 Å°C	9.52 ft-lb/in <sup>2</sup> @Temperature 73.4 Å°F	80*10*4; ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	40.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	22.2 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 80.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 176 $\text{Å}^\circ\text{F}$	
	100 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	55.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	100 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	55.6 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ISO 11359-2
	@Temperature 23.0 - 60.0 $\text{Å}^\circ\text{C}$	@Temperature 73.4 - 140 $\text{Å}^\circ\text{F}$	
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ft $\text{Å}^2\cdot\text{Å}^\circ\text{F}$	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	100 $\text{Å}^\circ\text{C}$	212 $\text{Å}^\circ\text{F}$	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	95.0 $\text{Å}^\circ\text{C}$	203 $\text{Å}^\circ\text{F}$	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	115 $\text{Å}^\circ\text{C}$	239 $\text{Å}^\circ\text{F}$	Rate B/50; ISO 306
	120 $\text{Å}^\circ\text{C}$	248 $\text{Å}^\circ\text{F}$	Rate B/120; ISO 306

Descriptive Properties	Value	Comments
Ball Pressure Test, 75 $\text{Å}^\circ\text{C}$ +/- 2 $\text{Å}^\circ\text{C}$	PASSES	IEC 60695-10-2

## Contact Songhan Plastic Technology Co.,Ltd.

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