

## SABIC Innovative Plastics NORYL IN120 PPE+HIPS (Europe-Africa-Middle East)

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

### Material Notes:

NORYL IN120 is an unfilled material with a Vicat B/120 of 125 Å°C according ISO 306. NORYL IN120 has been developed for the interior automotive

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-NORYL-IN120-PPEHIPS-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-IN120-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	0.0600 %	0.0600 %	23Å°C / 50% RH; ISO 62
Water Absorption at Saturation	0.25 %	0.25 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	on Tensile Bar; SABIC Method
Melt Index of Compound	10 g/10 min @Load 5.00 kg, Temperature 280 Å°C	10 g/10 min @Load 11.0 lb, Temperature 536 Å°F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, H358/30	70.0 MPa	10200 psi	ISO 2039-1
Tensile Strength at Break	40.0 MPa	5800 psi	50 mm/min; ISO 527
Tensile Strength, Yield	40.0 MPa	5800 psi	50 mm/min; ISO 527
Elongation at Break	50 %	50 %	50 mm/min; ISO 527
Elongation at Yield	3.0 %	3.0 %	50 mm/min; ISO 527
Tensile Modulus	1.90 GPa	276 ksi	1 mm/min; ISO 527
Flexural Yield Strength	60.0 MPa	8700 psi	2 mm/min; ISO 178
Flexural Modulus	1.90 GPa	276 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	18.0 kJ/m <sup>2</sup>	8.57 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	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
Charpy Impact, Notched	1.50 J/cm <sup>2</sup>	7.14 ft-lb/in <sup>2</sup>	Edgew 80*10*4 sp=62mm; ISO 179/1eA
	1.00 J/cm <sup>2</sup>	4.76 ft-lb/in <sup>2</sup>	

Mechanical Properties	Metric	English	Comments
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	Edgew 80*10*4 sp=62mm; ISO 75/Be
Taber Abrasion, mg/1000 Cycles	80	80	CS-17, 1 kg; SABIC Method

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 Âµm/m-Â°C @Temperature 23.0 - 80.0 Â°C	38.9 Âµin/in-Â°F @Temperature 73.4 - 176 Â°F	ISO 11359-2
Thermal Conductivity	0.230 W/m-K	1.60 BTU-in/hr-ftÂ²- Â°F	ISO 8302
Deflection Temperature at 0.46 MPa (66 psi)	115 Â°C	239 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
Deflection Temperature at 1.8 MPa (264 psi)	100 Â°C	212 Â°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
Vicat Softening Point	120 Â°C	248 Â°F	Rate B/50; ISO 306
	125 Â°C	257 Â°F	Rate B/120; ISO 306
	130 Â°C	266 Â°F	Rate A/50; ISO 306
Oxygen Index	20 %	20 %	ISO 4589
Glow Wire Test	750 Â°C @Thickness 3.20 mm	1380 Â°F @Thickness 0.126 in	IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	ROA; IEC 60093
Dielectric Constant	2.5 @Frequency 1.00e+6 Hz	2.5 @Frequency 1.00e+6 Hz	IEC 60250
	2.5 @Frequency 50.0 - 60.0 Hz	2.5 @Frequency 50.0 - 60.0 Hz	IEC 60250
Dielectric Strength	18.0 kV/mm @Thickness 3.20 mm	457 kV/in @Thickness 0.126 in	in oil; IEC 60243-1
	0.00040 @Frequency 50.0 - 60.0 Hz	0.00040 @Frequency 50.0 - 60.0 Hz	IEC 60250

Electrical Properties	0.00090 Metric	0.00090 English	Comments
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	IEC 60283

Descriptive Properties	Value	Comments
Ball Pressure Test, 75Â°C +/- 2Â°C	PASSES	IEC 60695-10-2

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