

## SABIC Innovative Plastics NORYL LS6010 PPE+HIPS (Europe-Africa-Middle East)

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

### Material Notes:

Noryl\* LS6010 resin is a high performance modified PPE-PS blend that exhibits an excellent balance of nonhalogenated flame retardance, lower smoke production upon burning and low specific gravity for light weight parts. Noryl LS6010 is available in custom colors and may be an excellent material candidate for applications requiring light weight parts and strong flame, smoke and toxicity performance.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-NORYL-LS6010-PPEHIPS-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-LS6010-PPEHIPS-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Density	1.11 g/cc	0.0401 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.0500 %	0.0500 %	23 <sup>o</sup> C / 50% RH; ISO 62
Water Absorption at Saturation	0.20 %	0.20 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0080 cm/cm @Thickness 3.20 mm	0.0050 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	5.6 g/10 min @Load 5.00 kg, Temperature 280 <sup>o</sup> C	5.6 g/10 min @Load 11.0 lb, Temperature 536 <sup>o</sup> F	ASTM D1238
Melt Index of Compound	5.0 g/10 min @Load 5.00 kg, Temperature 280 <sup>o</sup> C	5.0 g/10 min @Load 11.0 lb, Temperature 536 <sup>o</sup> F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	53.0 MPa	7690 psi	Type I, 50 mm/min; ASTM D638
	58.0 MPa	8410 psi	50 mm/min; ISO 527
Tensile Strength, Yield	64.0 MPa	9280 psi	Type I, 50 mm/min; ASTM D638
	64.0 MPa	9280 psi	50 mm/min; ISO 527
Elongation at Break	8.3 %	8.3 %	50 mm/min; ISO 527
	20 %	20 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	4.6 %	4.6 %	Type I, 50 mm/min; ASTM D638
	4.7 %	4.7 %	50 mm/min; ISO 527

Mechanical Properties	Metric <sup>MPa</sup>	English	Comments <sup>ASTM D638</sup>
	2.44 GPa	354 ksi	1 mm/min; ISO 527
Flexural Yield Strength	100 MPa	14500 psi	1.3 mm/min, 50 mm span; ASTM D790
	100 MPa	14500 psi	2 mm/min; ISO 178
Flexural Modulus	2.36 GPa	342 ksi	2 mm/min; ISO 178
	2.39 GPa	347 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	3.00 J/cm	5.62 ft-lb/in	ASTM D256
	1.81 J/cm	3.39 ft-lb/in	ASTM D256
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Izod Impact, Notched (ISO)	18.0 kJ/mÂ²	8.57 ft-lb/inÂ²	80*10*4; ISO 180/1A
	14.0 kJ/mÂ²	6.66 ft-lb/inÂ²	80*10*4; ISO 180/1A
	@Temperature -30.0 Â°C	@Temperature -22.0 Â°F	
Charpy Impact, Notched	2.00 J/cmÂ²	9.52 ft-lb/inÂ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	52.0 J	38.4 ft-lb	ASTM D3763
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	67.0 Âµm/m-Â°C	37.2 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	67.0 Âµm/m-Â°C	37.2 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
CTE, linear, Transverse to Flow	67.0 Âµm/m-Â°C	37.2 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
	67.0 Âµm/m-Â°C	37.2 Âµin/in-Â°F	ISO 11359-2
	@Temperature -40.0 - 40.0 Â°C	@Temperature -40.0 - 104 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	124 Â°C	255 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af

Thermal Properties	Metric	English	Comments
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed, ASTM D648
Vicat Softening Point	143 Â°C	289 Â°F	Rate B/50; ASTM D1525
	143 Â°C	289 Â°F	Rate B/50; ISO 306
	146 Â°C	295 Â°F	Rate B/120; ISO 306

Descriptive Properties	Value	Comments
Draeger Tube Toxicity, Flaming (1.52mm)	Pass	Based on ASTM E 662
Draeger Tube Toxicity, Non-Flaming (1.52mm)	Pass	Based on ASTM E 662
Flame Spread Index (1.52mm)	15	ASTM E 162
NBS Smoke Density, Flaming, 4 min (1.52mm)	30	ASTM E 662
NBS Smoke Density, Non-Flaming, 4 min (1.52mm)	7	ASTM E 662
Vertical Burn a (60s, 1.52mm) passes at	0sec	FAR 25.853
Vertical Burn b (12s, 1.52mm) passes at	4sec	FAR 25.853

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