

SABIC Innovative Plastics LNP LUBRICOMP Noryl_NWR5810 PPE+HIPS (Europe-Africa-Middle East)

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

Material Notes:

LNP* Lubricomp* Noryl_NWR5810 compound is a 10% PTFE filled PPE+PS. High flow and good impact. Applications requiring wear resistance/lubricity. Electronics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRICOMP-NorylNWR5810-PPEHIPS-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0055 - 0.0070 cm/cm @Thickness 3.20 mm	0.0055 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0045 - 0.0070 cm/cm @Thickness 3.20 mm	0.0045 - 0.0070 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	5.5 g/10 min @Load 5.00 kg, Temperature 260 Â°C	5.5 g/10 min @Load 11.0 lb, Temperature 500 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	37.0 MPa	5370 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	39.0 MPa	5660 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	55 %	55 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	2.8 %	2.8 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.17 GPa	315 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	57.0 MPa	8270 psi	2.6 mm/min, 100 mm span; ASTM D790
	61.0 MPa	8850 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.99 GPa	289 ksi	2.6 mm/min, 100 mm span; ASTM D790
	2.06 GPa	299 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.32 J/cm	4.35 ft-lb/in	ASTM D256
Izod Impact, Unnotched			ASTM D4812

Mechanical Properties	22.42 J/cm Metric	42.00 ft-lb/in English	Comments
Dart Drop, Total Energy	32.0 J @Temperature 23.0 Â°C	23.6 ft-lb @Temperature 73.4 Â°F	ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	64.8 Âµm/m-Â°C @Temperature -40.0 - 60.0 Â°C	36.0 Âµin/in-Â°F @Temperature -40.0 - 140 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	73.8 Âµm/m-Â°C @Temperature -40.0 - 60.0 Â°C	41.0 Âµin/in-Â°F @Temperature -40.0 - 140 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	113 Â°C @Thickness 3.20 mm	235 Â°F @Thickness 0.126 in	unannealed; ASTM D648
	116 Â°C @Thickness 6.40 mm	241 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	97.0 Â°C @Thickness 3.20 mm	207 Â°F @Thickness 0.126 in	unannealed; ASTM D648
	105 Â°C @Thickness 6.40 mm	221 Â°F @Thickness 0.252 in	unannealed; ASTM D648
Vicat Softening Point	110 Â°C	230 Â°F	Rate B/50; ASTM D1525

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