

SABIC Innovative Plastics LNP LUBRILOY ZX06315 PPE+SEBS+Polyolefin (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Styrene-Butadiene

Material Notes:

LNP* Lubriloy* ZX06315 is a compound based on PPE+PS Blend resin containing Flame Retardant, Proprietary Lubricant. Added features of this material include: Internally Lubricated, Non-Brominated & Non-Chlorinated Flame Retardant, Flame Retardant, high HDT.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-LUBRILOY-ZX06315-PPESEBSPolyolefin-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ASTM D792
Linear Mold Shrinkage, Flow	0.0094 - 0.0096 cm/cm @Time 86400 sec	0.0094 - 0.0096 in/in @Time 24.0 hour	ASTM D955
Linear Mold Shrinkage, Transverse	0.0091 - 0.0093 cm/cm @Time 86400 sec	0.0091 - 0.0093 in/in @Time 24.0 hour	ASTM D955
Melt Index of Compound	38 g/10 min @Load 10.0 kg, Temperature 280 °C	38 g/10 min @Load 22.0 lb, Temperature 536 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength at Break	50.0 MPa	7250 psi	Type I, 50 mm/min; ASTM D638
Tensile Strength, Yield	63.0 MPa	9140 psi	Type I, 50 mm/min; ASTM D638
Elongation at Break	11.9 %	11.9 %	Type I, 50 mm/min; ASTM D638
Elongation at Yield	5.0 %	5.0 %	Type I, 50 mm/min; ASTM D638
Tensile Modulus	2.27 GPa	329 ksi	50 mm/min; ASTM D638
Flexural Strength	91.0 MPa	13200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Yield Strength	93.0 MPa	13500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.19 GPa	318 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	2.30 J/cm	4.31 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.21	0.21	ASTM D3702 Modified

Mechanical Properties	Metric	English	Comments
K (wear) Factor	$131 \times 10^{-8} \text{ mm}^2/\text{N}\cdot\text{M}$	$10^{-10} \text{ in}^2\cdot\text{lb}\cdot\text{in}^{-1}$	Washer, ASTM D3702 Modified

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	720 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	400 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM E 831
	@Temperature -40.0 - 40.0 $\text{Å}^\circ\text{C}$	@Temperature -40.0 - 104 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	124 $\text{Å}^\circ\text{C}$	255 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	
	129 $\text{Å}^\circ\text{C}$	264 $\text{Å}^\circ\text{F}$	unannealed; ASTM D648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Flammability, UL94	V-1	V-1	UL 94 by SABIC-IP
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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