

SABIC Innovative Plastics NORYL ENV150 PPE (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO

Material Notes:

Noryl* ENV150 modified polyphenylene ether resin is an unfilled, flame retardant high heat grade suitable for extrusion molding conversion route. It uses non-chlorinated, non-brominated FR additives to deliver a UL94 V0 rating at 1.50 mm and has a Vicat ISO306 B/120 temperature of 160C.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-NORYL-ENV150-PPE-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Moisture Absorption	0.0600 %	0.0600 %	23 ^o C / 50% RH; ISO 62
Water Absorption at Saturation	0.30 %	0.30 %	ISO 62
Melt Index of Compound	10 g/10 min @Load 5.00 kg, Temperature 280 ^o C	10 g/10 min @Load 11.0 lb, Temperature 536 ^o F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	50 mm/min; ISO 527
Tensile Strength, Yield	60.0 MPa	8700 psi	50 mm/min; ISO 527
Elongation at Break	15 %	15 %	50 mm/min; ISO 527
Elongation at Yield	4.0 %	4.0 %	50 mm/min; ISO 527
Tensile Modulus	2.40 GPa	348 ksi	1 mm/min; ISO 527
Flexural Yield Strength	85.0 MPa	12300 psi	2 mm/min; ISO 178
Flexural Modulus	2.30 GPa	334 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	28.0 kJ/m ²	13.3 ft-lb/in ²	80*10*4; ISO 180/1A
	12.0 kJ/m ² @Temperature -30.0 ^o C	5.71 ft-lb/in ² @Temperature -22.0 ^o F	80*10*4; ISO 180/1A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 μ m/m- ^o C @Temperature -40.0 - 40.0 ^o C	33.3 μ in/in- ^o F @Temperature -40.0 - 104 ^o F	ISO 11359-2

Thermal Properties	Metric $m/m-^{\circ}C$	English $in/in-^{\circ}F$	Comments
CTE, linear, Transverse to Flow	@Temperature -40.0 - 40.0 $^{\circ}C$	@Temperature -40.0 - 104 $^{\circ}F$	ISO 11359-2
Hot Ball Pressure Test	≤ 125 $^{\circ}C$	≤ 257 $^{\circ}F$	IEC 60695-10-2
Deflection Temperature at 1.8 MPa (264 psi)	135 $^{\circ}C$	275 $^{\circ}F$	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	155 $^{\circ}C$	311 $^{\circ}F$	Rate B/50; ISO 306
	160 $^{\circ}C$	320 $^{\circ}F$	Rate B/120; ISO 306
UL RTI, Electrical	65.0 $^{\circ}C$	149 $^{\circ}F$	UL 746B
UL RTI, Mechanical with Impact	65.0 $^{\circ}C$	149 $^{\circ}F$	UL 746B
UL RTI, Mechanical without Impact	65.0 $^{\circ}C$	149 $^{\circ}F$	UL 746B
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL 94 by SABIC-IP
Oxygen Index	32 %	32 %	ISO 4589
Glow Wire Test	960 $^{\circ}C$ @Thickness 1.00 mm	1760 $^{\circ}F$ @Thickness 0.0394 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	$\geq 1.00e+15$ ohm	$\geq 1.00e+15$ ohm	ROA; IEC 60093
Dielectric Constant	2.7 @Frequency 1.00e+6 Hz	2.7 @Frequency 1.00e+6 Hz	IEC 60250
	2.8 @Frequency 50.0 - 60.0 Hz	2.8 @Frequency 50.0 - 60.0 Hz	IEC 60250
Dielectric Strength	16.0 kV/mm @Thickness 3.20 mm	406 kV/in @Thickness 0.126 in	in oil; IEC 60243-1
Dissipation Factor	0.0040 @Frequency 1.00e+6 Hz	0.0040 @Frequency 1.00e+6 Hz	IEC 60250
	0.010 @Frequency 50.0 - 60.0 Hz	0.010 @Frequency 50.0 - 60.0 Hz	IEC 60250

Electrical Properties

Metric

English

Comments

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