A. Schulman FORMION™ FI 225 30% Glass Fiber Reinforced Ionomer / Nylon Alloy

Category : Polymer , Thermoplastic , Ionomer , Nylon

Material Notes:

DescriptionFormion® FI 225 is an injection molding grade, 30% glass fiber reinforced Ionomer / Nylon alloy, which has been formulated for high scratch resistance, heat resistance and high stiffness. ApplicationFormion® FI 225 is targeted for non painted, mold-in -color, exterior or interior appearance applications. Information provided by A. Schulman.

Order this product through the following link:
http://www.lookpolymers.com/polymer_A-Schulman-FORMION-FI-225-30-Glass-Fiber-Reinforced-Ionomer-Nylon-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ISO 1183/1
Linear Mold Shrinkage	0.00050 - 0.0015 cm/cm @Thickness 3.20 mm	0.00050 - 0.0015 in/in @Thickness 0.126 in	72 hr; ISO 294
	0.00050 - 0.0015 cm/cm @Thickness 3.20 mm	0.00050 - 0.0015 in/in @Thickness 0.126 in	aged 48 hrs at 121°C; ISO 294
Melt Index of Compound	2.5 g/10 min @Load 2.16 kg, Temperature 230 °C	2.5 g/10 min @Load 4.76 lb, Temperature 446 °F	Cond. L; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	85.0 MPa	12300 psi	ISO 527
Elongation at Break	4.0 %	4.0 %	ISO 527
Flexural Modulus	5.85 GPa	848 ksi	Tangent; ISO 178

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	>= 195 °C @Thickness 3.20 mm	>= 383 °F @Thickness 0.126 in	ISO 75

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