

A. Schulman FORMION™ FI 393 Ionomer

Category : Polymer , Thermoplastic , Ionomer

Material Notes:

Description Formion® FI 393 is a 10% glass fiber reinforced, injection molding grade Ionomer, which has been formulated for scratch resistance, low CLTE, and impact. Formion FI 393U is UV stabilized to exceed SAE J1960 2500 kJ/m² automotive performance criteria, and 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-393-Ionomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.01 g/cc	1.01 g/cc	ISO 1183/1
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	aged 48 hrs at 121°C; ISO 294
	@Thickness 3.20 mm	@Thickness 0.126 in	
	0.0020 - 0.0060 cm/cm	0.0020 - 0.0060 in/in	72 hr; ISO 294
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	15 sec delay; ISO 868
Tensile Strength, Ultimate	22.0 MPa	3190 psi	at max load; ISO 527
Elongation at Break	215 %	215 %	ISO 527
Flexural Modulus	0.950 GPa	138 ksi	Tangent; ISO 178
Izod Impact, Notched (ISO)	NB	NB	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	64.0 °C	147 °F	ISO 75
	@Thickness 3.20 mm	@Thickness 0.126 in	

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