

**A. Schulman FORMION™ FI 389 Ionomer**

Category : Polymer , Thermoplastic , Ionomer

**Material Notes:**

Information provided by A. Schulman.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_A-Schulman-FORMION-FI-389-Ionomer.php](http://www.lookpolymers.com/polymer_A-Schulman-FORMION-FI-389-Ionomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.950 g/cc	0.950 g/cc	ISO 1183/1
Linear Mold Shrinkage	0.0080 - 0.012 cm/cm	0.0080 - 0.012 in/in	72 hr; ISO 294
	@Thickness 3.20 mm	@Thickness 0.126 in	
	0.011 - 0.015 cm/cm	0.011 - 0.015 in/in	aged 48 hrs at 121°C; ISO 294
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	15 sec delay; ISO 868
Tensile Strength, Ultimate	21.0 MPa	3050 psi	at max load; ISO 527
Elongation at Break	410 %	410 %	ISO 527
Flexural Modulus	0.860 GPa	125 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)	72.0 °C	162 °F	ISO 75
	@Thickness 3.20 mm	@Thickness 0.126 in	

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