

A. Schulman FORMION™ FI 231 5% Mineral Reinforced Ionomer / Nylon Alloy

Category : Polymer , Thermoplastic , Ionomer , Nylon

Material Notes:

Description Formion® FI 231 is an injection molding grade, 5% mineral reinforced Ionomer / Nylon alloy, which has been formulated for high scratch resistance, heat resistance and high stiffness. Application Formion® FI 231 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-231-5-Mineral-Reinforced-Ionomer-Nylon-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ISO 1183/1
Linear Mold Shrinkage	0.0011 - 0.0070 cm/cm	0.0011 - 0.0070 in/in	aged 48 hrs at 121°C; ISO 294
	@Thickness 3.20 mm	@Thickness 0.126 in	
	0.0010 - 0.0060 cm/cm	0.0010 - 0.0060 in/in	ISO 294
	@Thickness 3.20 mm, Time 259000 sec	@Thickness 0.126 in, Time 72.0 hour	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	42.0 MPa	6090 psi	ISO 527
Elongation at Break	125 %	125 %	ISO 527
Flexural Modulus	1.485 GPa	215.4 ksi	Tangent; ISO 178
Izod Impact, Notched (ISO)	19.1 kJ/m²	9.09 ft-lb/in²	ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	76.0 °C	169 °F	ISO 75
	@Thickness 3.17 mm	@Thickness 0.125 in	

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