

A. Schulman FORMION™ FI 105 Non-Reinforced, Injection Molding Grade Sodium Ionomer

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

Description Formion® FI 105 is a non-reinforced, transparent, injection molding grade Sodium Ionomer. It has been formulated for high durability, scratch resistance, low temperature ductility, and low stiffness. Application Formion® FI 105 is targeted for non painted, mold-in-color, exterior or interior appearance applications requiring high or low gloss, and excellent colorability or transparency. Information provided by A. Schulman.

Order this product through the following link:

http://www.lookpolymers.com/polymer_A-Schulman-FORMION-FI-105-Non-Reinforced-Injection-Molding-Grade-Sodium-Ionomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.940 g/cc	0.940 g/cc	ISO 1183/1
Linear Mold Shrinkage	0.0060 - 0.018 cm/cm @Thickness 3.20 mm	0.0060 - 0.018 in/in @Thickness 0.126 in	72 hr; ISO 294
Melt Index of Compound	6.0 g/10 min @Load 2.16 kg, Temperature 190 °C	6.0 g/10 min @Load 4.76 lb, Temperature 374 °F	Cond. E; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	15 sec delay; ISO 868
Tensile Strength, Ultimate	21.0 MPa	3050 psi	at max load; ISO 527
Elongation at Break	375 %	375 %	ISO 527
Flexural Modulus	0.250 GPa	36.3 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)	39.0 °C @Thickness 3.20 mm	102 °F @Thickness 0.126 in	ISO 75

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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