

A. Schulman FORMION™ FI 105E Non-Reinforced, Extrusion Grade Sodium Ionomer

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

Description Formion® FI 1051E is a non-reinforced, transparent, extrusion grade Sodium Ionomer. It has been formulated for high durability, cut and puncture resistance, and low temperature ductility. Application Formion® FI 105E is targeted for exterior or interior appearance or packaging applications in film, blow molding, thermoforming or extrusion applications, which may require high or low gloss, 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-105E-Non-Reinforced-Extrusion-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	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	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
Tensile Strength, Yield	21.0 MPa	3050 psi	ISO 527
Elongation at Break	275 %	275 %	ISO 527
Flexural Modulus	0.360 GPa	52.2 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

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China