

A. Schulman FORMION™ FI 120E Non-Reinforced, Extrusion Grade Zinc Ionomer

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

DescriptionFormion® FI 120E is a non-reinforced, transparent, extrusion grade Zinc Ionomer. It has been formulate for high durability, cut and puncture resistance, and low temperature ductility.**Application**Formion® FI 120E 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-120E-Non-Reinforced-Extrusion-Grade-Zinc-Ionomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.960 g/cc	0.960 g/cc	ISO 1183/1
Linear Mold Shrinkage	0.0060 - 0.018 cm/cm @Thickness 3.20 mm, Time 259000 sec	0.0060 - 0.018 in/in @Thickness 0.126 in, Time 72.0 hour	ISO 294

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	225 %	225 %	ISO 527
Flexural Modulus	0.227 GPa	32.9 ksi	Tangent; ISO 178
Izod Impact, Notched (ISO)	NB	NB	ISO 180

Thermal Properties	Metric	English	Comments
Melting Point	105 °C	221 °F	10°C per minute; ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	39.0 °C @Thickness 3.17 mm	102 °F @Thickness 0.125 in	ISO 75

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

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