

## A. Schulman FORMION™ FI 120 Non-Reinforced, Injection Molding Grade Zinc Ionomer

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

### Material Notes:

Description Formion® FI 120 is a non-reinforced, transparent, injection molding grade Zinc Ionomer. It has been formulated for high durability, scratch resistance, low temperature ductility, and low stiffness. Application Formion® FI 120 is targeted for non painted, mold-in-color, exterior or interior appearance application requiring high or low gloss, and excellent colorability or transparency. It can also be used in applications requiring adhesion to metal. Information provided by A. Schulman.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_A-Schulman-FORMION-FI-120-Non-Reinforced-Injection-Molding-Grade-Zinc-Ionomer.php](http://www.lookpolymers.com/polymer_A-Schulman-FORMION-FI-120-Non-Reinforced-Injection-Molding-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	0.0060 - 0.018 in/in	ISO 294
	@Thickness 3.20 mm, Time 259000 sec	@Thickness 0.126 in, Time 72.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	57	57	15 sec delay; ISO 868
	63	63	Instantaneous; 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
Deflection Temperature at 0.46 MPa (66 psi)	38.0 °C	100 °F	ISO 75
	@Thickness 3.17 mm	@Thickness 0.125 in	

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

**Contact Songhan Plastic Technology Co.,Ltd.**

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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