

## IRPC Polimaxx Polene V1160 High Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

**Material Notes:**

CHARACTERISTICS: GOOD FLOWABILITY APPLICATIONS: INJECTION MOLDING FOR LIGHT WEIGHT HOUSEHOLDS, TOYS, FOOD CONTAINERS, COSMETICS CLOSURES, DISPOSABLE ARTICLES, LARGE MOLDING AND COMPLICATED PARTS

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_IRPC-Polimaxx-Polene-V1160-High-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_IRPC-Polimaxx-Polene-V1160-High-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.957 g/cc	0.0346 lb/in <sup>3</sup>	ASTM D792
Environmental Stress Crack Resistance	>= 3.0 hour	>= 3.0 hour	Condition B, F50; ASTM D1693
Melt Flow	15 g/10 min	15 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	43 g/10 min	43 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65.5	65.5	DIN 53505
Tensile Strength at Break	13.5 MPa	1960 psi	ASTM D638
Tensile Strength, Yield	29.0 MPa	4210 psi	ASTM D638
Elongation at Break	130 %	130 %	ASTM D638
Charpy Impact, Notched	0.250 J/cm <sup>2</sup>	1.19 ft-lb/in <sup>2</sup>	DIN 53453

Thermal Properties	Metric	English	Comments
Vicat Softening Point	125 °C	257 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Processing Temperature	170 - 250 °C	338 - 482 °F	

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