

## IRPC Polimaxx Polene GG3245 High Density Polyethylene

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

**Material Notes:**

CHARACTERISTICS: EXCELLENT ENVIRONMENTAL STRESS CRACKING RESISTANCE (ESCR) EXCELLENT IMPACT STRENGTH, GOOD PROCESSABILITY, HIGH TOUGHNESS APPLICATIONS: BLOW MOLDING/ SHEET/ THERMOFORMING EXTRUSION CONTAINERS 5 - 60 LITRES FOR DETERGENT AND INDUSTRIAL CHEMICALS, AUTOPARTS

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_IRPC-Polimaxx-Polene-GG3245-High-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_IRPC-Polimaxx-Polene-GG3245-High-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.945 g/cc	0.0341 lb/in <sup>3</sup>	ASTM D792
Environmental Stress Crack Resistance	>= 1000 hour	>= 1000 hour	Condition B, F50; ASTM D1693
Melt Flow	0.050 g/10 min	0.050 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 Â°C	@Load 4.76 lb, Temperature 374 Â°F	
	0.25 g/10 min	0.25 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 190 Â°C	@Load 11.0 lb, Temperature 374 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	DIN 53505
Tensile Strength at Break	42.0 MPa	6090 psi	ASTM D638
Tensile Strength, Yield	23.5 MPa	3410 psi	ASTM D638
Elongation at Break	1750 %	1750 %	ASTM D638
Charpy Impact, Notched	1.60 J/cm <sup>2</sup>	7.61 ft-lb/in <sup>2</sup>	DIN 53453

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

Processing Properties	Metric	English	Comments
Processing Temperature	200 - 220 Â°C	392 - 428 Â°F	

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