

## IRPC Polimaxx Polene GM2865 High Density Polyethylene

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

**Material Notes:**

CHARACTERISTICS: EXCELLENT STIFFNESS, GOOD PROCESSABILITY, HIGH IMPACT STRENGTH APPLICATIONS: BLOW MOLDING FOR CONTAINERS FROM A FEW ml TO ABOUT 20 LITRES, DAIRY PRODUCT BOTTLES MILK BOTTLES AND GALLON, FRUIT JUICE BOTTLES, ONE-WAY BOTTLES

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_IRPC-Polimaxx-Polene-GM2865-High-Density-Polyethylene.php](http://www.lookpolymers.com/polymer_IRPC-Polimaxx-Polene-GM2865-High-Density-Polyethylene.php)

Physical Properties	Metric	English	Comments
Density	0.964 g/cc	0.0348 lb/in <sup>3</sup>	ASTM D792
Environmental Stress Crack Resistance	>= 50 hour	>= 50 hour	Condition B, F50; ASTM D1693
Melt Flow	0.35 g/10 min	0.35 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	1.5 g/10 min	1.5 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	67	67	DIN 53505
Tensile Strength at Break	34.5 MPa	5000 psi	ASTM D638
Tensile Strength, Yield	32.5 MPa	4710 psi	ASTM D638
Elongation at Break	2000 %	2000 %	ASTM D638
Charpy Impact, Notched	0.800 J/cm <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	DIN 53453

Thermal Properties	Metric	English	Comments
Vicat Softening Point	130 °C	266 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Processing Temperature	170 - 200 °C	338 - 392 °F	

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