

IRPC Polimaxx Polene R1760 High Density Polyethylene

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

Material Notes:

CHARACTERISTICS: HIGH IMPACT STRENGTH, EXCELLENT SURFACE APPEARANCE, GOOD RIGIDITY CONTAIN UV STABILIZER

ADDITIVEAPPLICATIONS: INJECTION MOLDING FOR CRATES, TRAYS, CASES, INDUSTRIAL PARTS, BINS, LARGE HOUSEWARES, SAFETY

HELMETS PACKAGINGS OF AGRICULTURE PRODUCTS, PALLETS, HEAVY DUTY ARTICLES

Order this product through the following link:

http://www.lookpolymers.com/polymer_IRPC-Polimaxx-Polene-R1760-High-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.957 g/cc	0.0346 lb/in ³	ASTM D792
Environmental Stress Crack Resistance	>= 9.0 hour	>= 9.0 hour	Condition B, F50; ASTM D1693
Melt Flow	6.0 g/10 min	6.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	17.5 g/10 min	17.5 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	65.5	65.5	DIN 53505
Tensile Strength at Break	15.0 MPa	2180 psi	ASTM D638
Tensile Strength, Yield	29.5 MPa	4280 psi	ASTM D638
Elongation at Break	1000 %	1000 %	ASTM D638
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	DIN 53453

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

Processing Properties	Metric	English	Comments
Processing Temperature	200 - 260 °C	392 - 500 °F	

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