

Lotte Chemical Titan TITANEXÂ® HB0972 High density polyethylene Hexene-1 resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Blow Molding Grade

Material Notes:

HF0972 is a pelleted high density polyethylene Hexene-1 resin for blow molding. Applications: Large size shipping containers and drums, household and industrial chemical containers, toiletries and cosmetic containers. Advantages: Excellent stress crack resistance, excellent resistance to most chemicals, outstanding rigidity with high impact strength, high melt strength and moderate die swell. Information provided by Titan Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lotte-Chemical-Titan-TITANEX-HB0972-High-density-polyethylene-Hexene-1-resin.php

Physical Properties	Metric	English	Comments
Base Resin Density	0.949 g/cc	0.0343 lb/in ³	ASTM D1505
ESCR 100% IgepalÂ®	>= 1000 hour @Thickness 1.90 mm, Temperature 50.0 Â°C	>= 1000 hour @Thickness 0.0748 in, Temperature 122 Â°F	slit; ASTM D1693
Base Resin Melt Index	0.10 g/10 min	0.10 g/10 min	I₂
	10 g/10 min	10 g/10 min	I₂₁; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	36.3 MPa	5260 psi	ASTM D638
Tensile Strength, Yield	30.4 MPa	4410 psi	ASTM D638
Elongation at Break	>= 600 %	>= 600 %	ASTM D638
Flexural Modulus	1.10 GPa	160 ksi	ASTM D790

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	180 Â°C	356 Â°F	
Front Barrel Temperature	190 Â°C	374 Â°F	
Head Temperature	190 Â°C	374 Â°F	

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