

Total HDPE 6420 High Density Polyethylene, Film Resin

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

Material Notes:

Polyethylene: Medium molecular weight, high density film resin
 Characteristics: Excellent moisture barrier properties
 Low gels
 Low taste and odor
 High stiffness
 Good processability
 Good compatibility with LDPE and LLDPE
 Applications: Cereal liners
 Cracker over-wrap
 Bakery mixes
 Specialty monolayer films
 Coextruded films
 Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-HDPE-6420-High-Density-Polyethylene-Film-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.962 g/cc	0.962 g/cc	ASTM D792
Water Vapor Transmission	2.95 g/m ² /day	0.190 g/100 in ² /day	Coextruded Film; ASTM E96/66
	@Temperature 37.8 °C	@Temperature 100 °F	
	3.88 g/m ² /day	0.250 g/100 in ² /day	Monolayer Film; ASTM E96/66
	@Temperature 37.8 °C	@Temperature 100 °F	
Melt Flow	2.0 g/10 min	2.0 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	55 g/10 min	55 g/10 min	ASTM D1238
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	26.2 MPa	3800 psi	ASTM D882, A 20 in/min
Film Tensile Strength at Yield, TD	27.6 MPa	4000 psi	ASTM D882, A 20 in/min
Film Elongation at Break, MD	700 %	700 %	ASTM D882, A 20 in/min
Film Elongation at Break, TD	700 %	700 %	ASTM D882, A 20 in/min
2% Secant Modulus	0.689 GPa	100 ksi	MD, 1 in/min; ASTM D882
	0.703 GPa	102 ksi	TD, 1 in/min; ASTM D882
Elmendorf Tear Strength MD	24 g	24 g	Monolayer Film; ASTM D1922
	70 g	70 g	Coextruded Film; ASTM D1922
Elmendorf Tear Strength TD	385 g	385 g	Monolayer Film; ASTM D1922
	500 g	500 g	Coextruded Film; ASTM D1922

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break, MD	23.4 MPa	3400 psi	ASTM D882, A 20 in/min
Film Tensile Strength at Break, TD	23.4 MPa	3400 psi	ASTM D882, A 20 in/min
1% Secant Modulus, MD	862 MPa	125000 psi	1 in/min; ASTM D882
1% Secant Modulus, TD	883 MPa	128000 psi	1 in/min; ASTM D882

Processing Properties	Metric	English	Comments
Melt Temperature	199 - 210 °C	390 - 410 °F	Extrusion
Blow-up Ratio (BUR)	2.0 - 3.5	2.0 - 3.5	

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