

Total 6410 HDPE Film Resin

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

Material Notes:

Unique combination of high stiffness and clarity; Good moisture barrier properties; Good processability; Good compatibility with LDPE and LLDPE
Applications: paper overwrap, cup overwrap, plate overwrap, envelope windows, release liners, stand-up bags, specialty monolayer films, coextruded films
Information provided provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-6410-HDPE-Film-Resin.php

Physical Properties	Metric	English	Comments
Density	0.961 g/cc	0.0347 lb/in ³	ASTM D 792
Water Vapor Transmission	9.31 g/m ² /day	0.600 g/100 in ² /day	100°F; E 96/66
Thickness	25.4 microns	1.00 mil	
Melt Flow	1.2 g/10 min @Load 2.16 kg	1.2 g/10 min @Load 4.76 lb	ASTM D 1238
High Load Melt Index	33 g/10 min @Load 21.6 kg	33 g/10 min @Load 47.6 lb	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	26.2 MPa	3800 psi	ASTM D 882 A
Film Tensile Strength at Yield, TD	>= 27.6 MPa	>= 4000 psi	ASTM D 882 A
Film Elongation at Break, TD	700 %	700 %	ASTM D 882 A
Secant Modulus, MD	0.689 GPa	99.9 ksi	ASTM D 882 A
Secant Modulus, TD	0.703 GPa	102 ksi	ASTM D 882 A
Elmendorf Tear Strength MD	24 g	24 g	ASTM D 1922
Elmendorf Tear Strength TD	385 g	385 g	ASTM D 1922
Film Tensile Strength at Break, MD	>= 51.7 MPa	>= 7500 psi	ASTM D 882 A
Film Tensile Strength at Break, TD	>= 23.4 MPa	>= 3400 psi	ASTM D 882 A

Thermal Properties	Metric	English	Comments
Melting Point	129 °C	265 °F	ASTM D3417

Optical Properties	Metric	English	Comments
Haze	15 %	15 %	ASTM D 1003
Gloss	50 %	50 %	ASTM D 523

Descriptive Properties	Value	Comments
Process	Film	
Region	US & Canada	Bamberger Polymers Distribution

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