

Total 9458 HDPE Film Grade

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

Material Notes:

Medium molecular weight grade. Excellent bubble stability, good compatibility with LDPE and LLDPE, good heat resistance, high stiffness and tensile strength. Applications: Release liners, Stand-up bags, Coextruded films, Shipping sacks, Multi-walled liners, Oriented film structures, Specialty packaging. Information provided provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-9458-HDPE-Film-Grade.php

Physical Properties	Metric	English	Comments
Density	0.958 g/cc	0.0346 lb/in ³	ASTM D792
Water Vapor Transmission	10.9 g/m ² /day @Thickness 0.0254 mm	0.702 g/100 in ² /day @Thickness 0.00100 in	ASTM F1249
Thickness	25.4 microns	1.00 mil	as tested; 2.5 BUR
Melt Flow	0.45 g/10 min @Load 2.16 kg, Temperature 190 °C	0.45 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	31.0 MPa @Thickness 0.0254 mm	4500 psi @Thickness 0.00100 in	ASTM D882A
Film Tensile Strength at Yield, TD	17.9 MPa @Thickness 0.0254 mm	2600 psi @Thickness 0.00100 in	ASTM D882A
Film Elongation at Break, MD	270 % @Thickness 0.0254 mm	270 % @Thickness 0.00100 in	ASTM D882A
Film Elongation at Break, TD	<= 10 % @Thickness 0.0254 mm	<= 10 % @Thickness 0.00100 in	ASTM D882A
Elmendorf Tear Strength MD	15 g @Thickness 0.0254 mm	15 g @Thickness 0.00100 in	ASTM D1922
Elmendorf Tear Strength TD	1050 g @Thickness 0.0254	1050 g @Thickness 0.00100 in	ASTM D1922

Mechanical Properties	^{mm} Metric	English	Comments
Dart Drop	<= 1.97 g/micron @Thickness 0.0254 mm	<= 50.0 g/mil @Thickness 0.00100 in	ASTM D1709A
Dart Drop Test	<= 50.0 g	<= 0.110 lb	1.0 mil; ASTM D1709A
Film Tensile Strength at Break, MD	53.1 MPa @Thickness 0.0254 mm	7700 psi @Thickness 0.00100 in	ASTM D882A
Film Tensile Strength at Break, TD	17.9 MPa @Thickness 0.0254 mm	2600 psi @Thickness 0.00100 in	ASTM D882A
1% Secant Modulus, MD	1050 MPa @Thickness 0.0254 mm	152000 psi @Thickness 0.00100 in	ASTM D882A
1% Secant Modulus, TD	1370 MPa @Thickness 0.0254 mm	199000 psi @Thickness 0.00100 in	ASTM D882A

Processing Properties	Metric	English	Comments
Melt Temperature	193 - 216 °C	380 - 420 °F	Extrusion

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

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