

Total HDPE HL 535 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: High stiffness Good heat resistance Excellent bubble stability Good compatibility with LDPE and LLDPE
 Applications: Release liners Stand-up bags Coextruded films
 Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-HDPE-HL-535-High-Density-Polyethylene-Film-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.955 g/cc	0.955 g/cc	ASTM D792
Water Vapor Transmission	10.9 g/m ² /day @Temperature 37.8 °C	0.700 g/100 in ² /day @Temperature 100 °F	ASTM F1249
Melt Flow	0.35 g/10 min @Load 2.16 kg, Temperature 190 °C	0.35 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
	30 g/10 min @Load 21.6 kg, Temperature 190 °C	30 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	27.6 MPa	4000 psi	ASTM D882, A 20 in/min
Film Tensile Strength at Yield, TD	29.6 MPa	4300 psi	ASTM D882, A 20 in/min
Film Elongation at Break, MD	500 %	500 %	ASTM D882, A 20 in/min
Film Elongation at Break, TD	25 %	25 %	ASTM D882, A 20 in/min
Elmendorf Tear Strength MD	8.0 g	8.0 g	ASTM D1922
Elmendorf Tear Strength TD	1100 g	1100 g	ASTM D1922
Dart Drop Test	>= 50.0 g	>= 0.110 lb	ASTM D1709, A
Film Tensile Strength at Break, MD	43.4 MPa	6300 psi	ASTM D882, A 20 in/min
Film Tensile Strength at Break, TD	29.6 MPa	4300 psi	ASTM D882, A 20 in/min
1% Secant Modulus, MD	917 MPa	133000 psi	1 in/min; ASTM D882
1% Secant Modulus, TD	1280 MPa	186000 psi	1 in/min; ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	132 °C	270 °F	ASTM D3417

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

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