

Total MDPE HT 514 Medium Density Polyethylene, Blown Film

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

Material Notes:

MDPE HT 514 is a medium density polyethylene produced by slurry loop low pressure process with hexene as co-monomer. MDPE HT 514 is a semi-high molecular weight polyethylene giving excellent mechanical properties. It shows a broad molecular weight distribution ensuring outstanding processability. MDPE HT 514 can be used alone, blended or coextruded in a wide variety of blown film applications : consumer, industrial, food or hygiene packaging. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-MDPE-HT-514-Medium-Density-Polyethylene-Blown-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.938 g/cc	0.938 g/cc	ISO 1183
Melt Flow	0.15 g/10 min	0.15 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	14 g/10 min	14 g/10 min	ISO 1133
	@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	20.0 MPa	2900 psi	ISO 527-3
	@Thickness 0.0400 mm	@Thickness 0.00157 in	
	21.0 MPa	3050 psi	ISO 527-3
	@Thickness 0.0200 mm	@Thickness 0.000787 in	
Film Tensile Strength at Yield, TD	20.0 MPa	2900 psi	ISO 527-3
	@Thickness 0.0400 mm	@Thickness 0.00157 in	
	22.0 MPa	3190 psi	ISO 527-3
	@Thickness 0.0200 mm	@Thickness 0.000787 in	
Film Elongation at Break, MD	420 %	420 %	ISO 527-3
	@Thickness 0.0200 mm	@Thickness 0.000787 in	
	530 %	530 %	ISO 527-3
	@Thickness 0.0400 mm	@Thickness 0.00157 in	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, TD	520 % @Thickness 0.0200 mm	520 % @Thickness 0.000787 in	ISO 527-3
	620 % @Thickness 0.0400 mm	620 % @Thickness 0.00157 in	ISO 527-3
Flexural Modulus	0.740 GPa @Strain <=0.250 %	107 ksi @Strain <=0.250 %	ISO 178
Elmendorf Tear Strength, MD	0.900 g/micron @Thickness 0.0200 mm	22.9 g/mil @Thickness 0.000787 in	ISO 6383-2
	1.70 g/micron @Thickness 0.0400 mm	43.2 g/mil @Thickness 0.00157 in	ISO 6383-2
Elmendorf Tear Strength, TD	13.3 g/micron @Thickness 0.0200 mm	338 g/mil @Thickness 0.000787 in	ISO 6383-2
	18.9 g/micron @Thickness 0.0400 mm	480 g/mil @Thickness 0.00157 in	ISO 6383-2
Dart Drop Test	190 g @Thickness 0.0200 mm	0.419 lb @Thickness 0.000787 in	ISO 7765-1
	260 g @Thickness 0.0400 mm	0.573 lb @Thickness 0.00157 in	ISO 7765-1
Film Tensile Strength at Break, MD	56.0 MPa @Thickness 0.0400 mm	8120 psi @Thickness 0.00157 in	ISO 527-3
	69.0 MPa @Thickness 0.0200 mm	10000 psi @Thickness 0.000787 in	ISO 527-3
Film Tensile Strength at Break, TD	51.0 MPa @Thickness 0.0200 mm	7400 psi @Thickness 0.000787 in	ISO 527-3
	52.0 MPa @Thickness 0.0400	7540 psi	ISO 527-3

Mechanical Properties	^{mm} Metric	@Thickness 0.00157 in English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	126 °C	259 °F	ISO 11357
Vicat Softening Point	121 °C	250 °F	ISO 306
Processing Properties	Metric	English	Comments
Processing Temperature	190 - 220 °C	374 - 428 °F	Extrusion

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