

Total MDPE HR 515 Medium Density Polyethylene, Blown Film

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

Material Notes:

MDPE HR 515 is a medium density polyethylene produced with hexene as a co-monomer. It shows a broad molecular weight distribution ensuring outstanding processability. MDPE HR 515 is especially dedicated to high rigidity film applications, particularly in blend and/or coextrusion with LDPE and/or LLDPE. MDPE HR 515 is suited for many applications, in the field of consumer, food or hygiene packaging. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-MDPE-HR-515-Medium-Density-Polyethylene-Blown-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.942 g/cc	0.942 g/cc	ISO 1183
Melt Flow	0.22 g/10 min	0.22 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	17.5 g/10 min	17.5 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	22.0 MPa	3190 psi	ISO 527-3
	@Thickness 0.0400 mm	@Thickness 0.00157 in	
	23.0 MPa	3340 psi	ISO 527-3
	@Thickness 0.0200 mm	@Thickness 0.000787 in	
Film Tensile Strength at Yield, TD	22.0 MPa	3190 psi	ISO 527-3
	@Thickness 0.0400 mm	@Thickness 0.00157 in	
	24.0 MPa	3480 psi	ISO 527-3
	@Thickness 0.0200 mm	@Thickness 0.000787 in	
Film Elongation at Break, MD	450 %	450 %	ISO 527-3
	@Thickness 0.0200 mm	@Thickness 0.000787 in	
	580 %	580 %	ISO 527-3
	@Thickness 0.0400 mm	@Thickness 0.00157 in	

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, TD	@Thickness 0.0200 mm	@Thickness 0.000787 in	ISO 527-3
	660 %	660 %	ISO 527-3
	@Thickness 0.0400 mm	@Thickness 0.00157 in	ISO 527-3
Flexural Modulus	0.810 GPa	117 ksi	ISO 178
	@Strain <=0.250 %	@Strain <=0.250 %	
Elmendorf Tear Strength, MD	0.800 g/micron	20.3 g/mil	ISO 6383-2
	@Thickness 0.0200 mm	@Thickness 0.000787 in	ISO 6383-2
	1.20 g/micron	30.5 g/mil	ISO 6383-2
	@Thickness 0.0400 mm	@Thickness 0.00157 in	ISO 6383-2
Elmendorf Tear Strength, TD	13.3 g/micron	338 g/mil	ISO 6383-2
	@Thickness 0.0200 mm	@Thickness 0.000787 in	ISO 6383-2
	15.3 g/micron	389 g/mil	ISO 6383-2
	@Thickness 0.0400 mm	@Thickness 0.00157 in	ISO 6383-2
Dart Drop Test	145 g	0.320 lb	ISO 7765-1
	@Thickness 0.0200 mm	@Thickness 0.000787 in	ISO 7765-1
	190 g	0.419 lb	ISO 7765-1
	@Thickness 0.0400 mm	@Thickness 0.00157 in	ISO 7765-1
Film Tensile Strength at Break, MD	55.0 MPa	7980 psi	ISO 527-3
	@Thickness 0.0400 mm	@Thickness 0.00157 in	ISO 527-3
	65.0 MPa	9430 psi	ISO 527-3
	@Thickness 0.0200 mm	@Thickness 0.000787 in	ISO 527-3
Film Tensile Strength at Break, TD	51.0 MPa	7400 psi	ISO 527-3
	@Thickness 0.0400 mm	@Thickness 0.00157 in	ISO 527-3
	53.0 MPa	7690 psi	ISO 527-3
	@Thickness 0.0200 mm	@Thickness 0.000787 in	ISO 527-3

Mechanical Properties	^{mm} Metric	ⁱⁿ English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	127 °C	261 °F	ISO 11357
Vicat Softening Point	124 °C	255 °F	ISO 306
Processing Properties	Metric	English	Comments
Processing Temperature	190 - 220 °C	374 - 428 °F	Extrusion

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