

## Total MDPE HF 513 Medium Density Polyethylene, Blown Film

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

### Material Notes:

MDPE HF 513 is a medium density polyethylene produced by slurry loop low pressure process with hexene as co-monomer. MDPE HF 513 is a semi-high molecular weight polyethylene giving excellent mechanical properties. It shows a broad molecular weight distribution ensuring outstanding processability. MDPE HF 513 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-HF-513-Medium-Density-Polyethylene-Blown-Film.php](http://www.lookpolymers.com/polymer_Total-MDPE-HF-513-Medium-Density-Polyethylene-Blown-Film.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.934 g/cc	0.934 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	
	14.5 g/10 min	14.5 g/10 min	ISO 1133
	@Load 21.60 kg, Temperature 190 °C	@Load 47.62 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	18.0 MPa	2610 psi	ISO 527-3
	@Thickness 0.0400 mm	@Thickness 0.00157 in	
	20.0 MPa	2900 psi	ISO 527-3
	@Thickness 0.0200 mm	@Thickness 0.000787 in	
Film Tensile Strength at Yield, TD	18.0 MPa	2610 psi	ISO 527-3
	@Thickness 0.0400 mm	@Thickness 0.00157 in	
	19.0 MPa	2760 psi	ISO 527-3
	@Thickness 0.0200 mm	@Thickness 0.000787 in	
Film Elongation at Break, MD	400 %	400 %	ISO 527-3
	@Thickness 0.0200 mm	@Thickness 0.000787 in	
	540 %	540 %	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
	620 % @Thickness 0.0400 mm	620 % @Thickness 0.00157 in	ISO 527-3
Flexural Modulus	0.620 GPa @Strain <=0.250 %	89.9 ksi @Strain <=0.250 %	ISO 178
	1.10 g/micron @Thickness 0.0200 mm	27.9 g/mil @Thickness 0.000787 in	ISO 6383-1
Elmendorf Tear Strength, MD	2.40 g/micron @Thickness 0.0400 mm	61.0 g/mil @Thickness 0.00157 in	ISO 6383-1
	13.8 g/micron @Thickness 0.0200 mm	351 g/mil @Thickness 0.000787 in	ISO 6383-1
Elmendorf Tear Strength, TD	18.9 g/micron @Thickness 0.0400 mm	480 g/mil @Thickness 0.00157 in	ISO 6383-1
	220 g @Thickness 0.0200 mm	0.485 lb @Thickness 0.000787 in	ISO 7765-1
Dart Drop Test	290 g @Thickness 0.0400 mm	0.639 lb @Thickness 0.00157 in	ISO 7765-1
	55.0 MPa @Thickness 0.0400 mm	7980 psi @Thickness 0.00157 in	ISO 527-3
Film Tensile Strength at Break, MD	65.0 MPa @Thickness 0.0200 mm	9430 psi @Thickness 0.000787 in	ISO 527-3
	52.0 MPa @Thickness 0.0200 mm	7540 psi @Thickness 0.000787 in	ISO 527-3
Film Tensile Strength at Break, TD	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	125 °C	257 °F	ISO 11357
Vicat Softening Point	118 °C	244 °F	ISO 306
Processing Properties	Metric	English	Comments
Processing Temperature	190 - 220 °C	374 - 428 °F	Extrusion

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