

TOTAL Polyethylene MDPE HR 515

Medium Density Polyethylene

TOTAL Refining & Chemicals

Message:

MDPE HR 515 is a medium density polyethylene produced by slurry loop process with hexene as 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 film applications, in the field of consumer, industrial, food or hygiene packaging.

General Information			
Additive	Antioxidation		
Features	Rigidity, high		
	hexene comonomer		
	Antioxidation		
	Workability, good		
	Medium wide molecular weight distribution		
Uses	Packaging		
	Films		
	Industrial application		
	Mixing		
	Food packaging		
	Consumer goods application field		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.942	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.22	g/10 min	ISO 1133
190°C/21.6 kg	18	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	810	MPa	ISO 178
Films	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-3
MD: Yield, 20 µm, blown film	23.0	MPa	ISO 527-3
TD: Yield, 20 µm, blown film	24.0	MPa	ISO 527-3
MD: Yield, 40 µm, blown film	22.0	MPa	ISO 527-3
TD: Yield, 40 µm, blown film	22.0	MPa	ISO 527-3
MD: Broken, 20 µm, blown film	65.0	MPa	ISO 527-3

TD: Broken, 20 μm, blown film	53.0	MPa	ISO 527-3
MD: Broken, 40 μm, blown film	55.0	MPa	ISO 527-3
TD: Broken, 40 μm, blown film	51.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: Broken, 20 μm, blown film	450	%	ISO 527-3
TD: Broken, 20 μm, blown film	540	%	ISO 527-3
MD: Broken, 40 μm, blown film	580	%	ISO 527-3
TD: Broken, 40 μm, blown film	660	%	ISO 527-3
Dart Drop Impact			ISO 7765-1
20 μm, blown film	150	g	ISO 7765-1
40 μm, blown film	190	g	ISO 7765-1
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	124	°C	ISO 306
Melting Temperature (DSC)	127	°C	ISO 3146
Additional Information			
Elmendorf, ISO 6383-2, MD, Blown Film, 20 μm: 8 N/mmElmendorf, ISO 6383-2, TD, Blown Film, 20 μm: 130 N/mmElmendorf, ISO 6383-2, MD, Blown Film, 40 μm: 12 N/mmElmendorf, ISO 6383-2, TD, Blown Film, 40 μm: 150 N/mm			
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	190 - 220	°C	
Cylinder Zone 2 Temp.	190 - 220	°C	
Cylinder Zone 3 Temp.	190 - 220	°C	
Cylinder Zone 4 Temp.	190 - 220	°C	
Cylinder Zone 5 Temp.	190 - 220	°C	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

