

SABIC® LLDPE 6135BE

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® LLDPE 6135BE is a medium density grade typically used in high demanding extrusion segments like e.g. sheet and more specific geo-membranes. The grade is a hexene-1 copolymer combining good extrusion performance, mechanical properties and ESCR with low migration figures because of the increased density compared to LLDPE grades.
This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	Copolymer		
	hexene comonomer		
	Mobility Low to None		
	Medium density		
Uses	Geo Membranes		
	Sheet		
Appearance	Natural color		
Processing Method	Pipeline extrusion molding		
	Extrusion		
	Sheet extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	0.932	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.80	g/10 min	ISO 1133
190°C/5.0 kg	2.4	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	54		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (1.60mm, molded)	620	MPa	ISO 527-2/200
Tensile Stress (yield, 1.60mm, molding)	18.0	MPa	ISO 527-2/200
Tensile Strain			ISO 527-2/200
Yield, 1.60mm, molded	12	%	ISO 527-2/200
Fracture, 1.60mm, molded	> 700	%	ISO 527-2/200
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C, molded	9.0	kJ/m ²	ISO 179/1eA

23°C, molded	30	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	60.0	°C	ISO 306/B
Melting Temperature (DSC)	118 - 122	°C	DIN 53765
Oxidation Induction Time - Compression Molded (210°C, 1.60 mm)	> 50	min	EN 728
Notched Constant Tensile Load - Compression Molded (1.60 mm)	> 2.7	month	ASTM D5397

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