SABIC® LLDPE 0132HS00

Linear Low Density Polyethylene

Saudi Basic Industries Corporation (SABIC)

Message:

Pipe Extrusion:
SABIC® LLDPE 0132HS00 is a medium density grade especially developed for the application in high demanding extrusion segments like e.g. sheet and more specific geo-membranes.
The grade is a hexene-1 copolymer combining excellent extrusion performance, mechanical properties and ESCR with low migration figures because of the increased density compared to LLDPE grades.
Sheet Extrusion:
SABIC® LLDPE 0132HS00 is a hexene-1 copolymer medium density grade, which combines excellent extrusion performance, mechanical properties, ESCR and low migration values.
SABIC® LLDPE 0132HS00 is especially developed for the application in high demanding extrusions segments like e.g. sheet and more specific geo-membranes.
The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/medical applications.

General Information	
Features	High ESCR (Stress Cracking Resistance) hexene comonomer Mobility Low to None Medium density
Uses	Geo Membranes Piping system Sheet
Agency Ratings	EEC 2002/72/EC FDA 21 CFR 177.1520
Appearance	Natural color
Forms	Particle
Processing Method	Pipeline extrusion molding Extrusion Sheet extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	0.932	g/cm³	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
Color	00900		
Oxidation Induction Time (210°C)	> 50	min	EN 728
Notched Constant Tensile Load [1] (60°C)	> 2000		ASTM D5397

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	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	9.0	kJ/m^2	ISO 179/1eA
23°C	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
NOTE			
1.	5 MPa, 2% Surfactant		

Recommended distributors for this material

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WECHAT