

Lupolen 5031 L Q 449 K

High Density Polyethylene

LyondellBasell Industries

Message:

Lupolen 5031 L Q 449 K is a high density polyethylene (HDPE) base material for extrusion of silane crosslinked pipes (PE-Xb). It is not intended for medical and pharmaceutical applications.

General Information			
Features	Crosslinkable		
Uses	Piping system		
Forms	Particle		
Processing Method	Pipeline extrusion molding		
	Sheet extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	0.955	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	4.0	g/10 min	ISO 1133
190°C/5.0 kg	13	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 3 sec)	62		ISO 868
Ball Indentation Hardness (H 132/30)	50.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	1100	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	26.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	10	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	125	°C	ISO 306/A50
--	70.0	°C	ISO 306/B50
Melting Temperature (DSC)	131	°C	ISO 3146
Extrusion	Nominal Value	Unit	
Melt Temperature	< 280	°C	
Extrusion instructions			

Melt temperatures above 280 °C should be avoided to prevent potential degradation. In case higher temperatures are needed please contact LyondellBasell.

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