

Lupolen 5261 Z Q 456 B

High Density Polyethylene

LyondellBasell Industries

Message:

Lupolen 5261 Z Q 456 B is a high density polyethylene (HDPE) powder with high melt viscosity for ram extrusion of peroxide crosslinked pipes (PE-Xa). It is not intended for medical and pharmaceutical applications.

General Information			
Features	High density		
	Crosslinkable		
	Viscosity, High		
Uses	Piping system		
Forms	Powder		
Processing Method	Pipeline extrusion molding		
	Extrusion		
	Sheet extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	3.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 3 sec)	65		ISO 868
Ball Indentation Hardness (H 132/30)	52.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus - Secant (23°C)	1200	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	27.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	9.0	%	ISO 527-2/50
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature			
--	132	°C	ISO 306/A50
--	80.0	°C	ISO 306/B50
Melting Temperature (DSC)	134	°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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Recommended distributors for this material

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

