

Lupolen 5261 Z Q 456 B

High Density Polyethylene

LyondellBasell Industries

Technical Data

Product Description

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

Material Status	• Commercial: Active		
Literature ¹	• Processing - Mold Shrink (English) • Processing - PE Films (English) • Processing - Polyolefin Injection Molding Guide (English) • Technical Datasheet (English)		
Search for UL Yellow Card	• LyondellBasell Industries • Lupolen		
Availability	• Africa & Middle East	• Europe	• North America
Features	• Crosslinkable	• High Density	• High Viscosity
Uses	• Piping		
Forms	• Powder		
Processing Method	• Extrusion	• Pipe Extrusion	• Sheet Extrusion

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
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
Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore D, 3 sec)	65	ISO 868
Ball Indentation Hardness (H 132/30)	52.0 MPa	ISO 2039-1
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 Notes

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

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.