

# Lupolen 5461 B Q 471

High Density Polyethylene

LyondellBasell Industries

## Message:

Lupolen 5461 B Q 471 is a high density polyethylene (HDPE) powder with high melt viscosity for extrusion of peroxide crosslinked pipes (PE-Xa). Typical application: Crosslinked pipes, PE-Xa (peroxide)  
It is not intended for medical and pharmaceutical applications.

General Information	
Features	High density
	Crosslinkable
	Viscosity, High
Uses	Piping system
	Sheet
Forms	Powder
Processing Method	Pipeline extrusion molding
	Extrusion
	Sheet extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	10	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 132/30)	49.0	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)	28.0	MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	8.0	%	ISO 527-2/50
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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