



Lupolen 5461 B Q 471 B

Polyethylene, High Density

Product Description

Lupolen 5461 B Q 471 B 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.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe
Processing Methods	Extrusion Pipe Sheet and Semi Finished Products
Features	High Density
Typical Customer Applications	Plumbing, Heating & Cooling

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.953	g/cm ³
Melt flow rate (MFR) (190°C/21.6kg)	ISO 1133	15.0	g/10 min
Mechanical			
Tensile Modulus (23 °C, v = 1 mm/min, Secant)	ISO 527-1, -2	1100	MPa
Tensile Stress at Yield (23 °C, v = 50 mm/min)	ISO 527-1, -2	28	MPa
Tensile Strain at Yield (23 °C, v = 50 mm/min)	ISO 527-1, -2	8	%
Hardness			
Ball indentation hardness (H 132/30)	ISO 2039-1	49	MPa

Additional Properties

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

Notes

Typical properties; not to be construed as specifications.