



## Lupolen 5461 B Q 471

### Polyethylene, High Density

#### Product Description

**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.

#### Product Characteristics

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

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Density	ISO 1183	0.953	g/cm <sup>3</sup>
Melt flow rate (MFR) (190°C/21.6kg)	ISO 1133	10.0	g/10 min
<b>Mechanical</b>			
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	%
<b>Hardness</b>			
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.