



## Lupolen 5261 Z Q 456

### Polyethylene, High Density

#### Product Description

**Lupolen 5261 Z Q 456** 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.

#### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method used</b>	ISO
<b>Availability</b>	Europe, North America, Africa-Middle East
<b>Processing Methods</b>	Extrusion Pipe Sheet and Semi Finished Products
<b>Typical Customer Applications</b>	Plumbing, Heating & Cooling

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Density	ISO 1183	0.954	g/cm <sup>3</sup>
Melt flow rate (MFR) (190°C/21.6kg)	ISO 1133	2.0	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	27	MPa
Tensile Strain at Yield (23 °C, v = 50 mm/min)	ISO 527-1, -2	9	%
<b>Hardness</b>			
Shore hardness (Shore D (3 sec))	ISO 868	65	
Ball indentation hardness (H 132/30)	ISO 2039-1	52	MPa
<b>Thermal</b>			
Vicat softening temperature (VST/A/50 K/h (10 N))	ISO 306	132	°C
(VST/B/50 K/h (50 N))		80	°C
Melting Temperature	ISO 3146	134	°C

#### 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.