

Lupolen 4261 A Q 416

High Density Polyethylene

LyondellBasell Industries

Technical Data

Product Description

Lupolen 4261 A Q 416 is a high density polyethylene (HDPE) with high melt viscosity for extrusion of radiation crosslinked pipes (PE-Xc). The product has a high heat- and extremely high extraction stability. 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	• Europe		
Additive	• Antioxidant		
Features	• Antioxidant • Extraction Resistant	• High Heat Resistance • High Viscosity	• Irradiation Crosslinkable
Uses	• Piping		
Forms	• Pellets		
Processing Method	• Pipe Extrusion	• Sheet Extrusion	

Physical	Nominal Value Unit	Test Method
Density	0.946 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)		ISO 1133
190°C/21.6 kg	8.5 g/10 min	
190°C/5.0 kg	0.50 g/10 min	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus - Secant (23°C)	850 MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	24.0 MPa	ISO 527-2/50
Tensile Strain (Yield, 23°C)	10 %	ISO 527-2/50

Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore D, 3 sec)	62	ISO 868
Ball Indentation Hardness (H 132/30)	40.0 MPa	ISO 2039-1

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature		
--	125 °C	ISO 306/A50
--	75.0 °C	ISO 306/B50
Melting Temperature (DSC)	131 °C	ISO 3146

Extrusion	Nominal Value Unit
Melt Temperature	190 to 220 °C

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.