

Lupolen 4261 AG Q 469

High Density Polyethylene

LyondellBasell Industries

Technical Data

Product Description

Lupolen 4261 AG Q469 is a high density polyethylene with outstanding ESCR, high impact resistance and good chemical resistance. It is delivered in pellet form and contains antioxidants. Typical customer applications include jerry cans and IBCs for the packaging of dangerous goods. Lupolen 4261 AG Q469 is not intended for use in 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 - ISO (English)		
Search for UL Yellow Card	• LyondellBasell Industries • Lupolen		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Antioxidant		
Features	• Antioxidant • Good Chemical Resistance	• High ESCR (Stress Crack Resist.) • High Impact Resistance	
Uses	• Industrial Containers	• Jerricans	
Forms	• Pellets		
Processing Method	• Extrusion Blow Molding		

Physical	Nominal Value Unit	Test Method
Density	0.945 g/cm ³	ISO 1183
Apparent Density	> 0.50 g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR)		ISO 1133
190°C/21.6 kg	6.0 g/10 min	
190°C/5.0 kg	0.35 g/10 min	
FNCT - 3.5 MPa ³ (80°C)	2.5 day	ISO 16770
Mechanical	Nominal Value Unit	Test Method
Tensile Modulus (23°C)	850 MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	24.0 MPa	ISO 527-2
Tensile Strain (Yield)	10 %	ISO 527-2
Impact	Nominal Value Unit	Test Method
Tensile Impact Strength (-30°C)	170 kJ/m ²	ISO 8256/1A
Hardness	Nominal Value Unit	Test Method
Ball Indentation Hardness (H 132/30)	40.0 MPa	ISO 2039-1
Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed	70.0 °C	ISO 75-2/B
1.8 MPa, Unannealed	42.0 °C	ISO 75-2/A
Vicat Softening Temperature		
--	125 °C	ISO 306/A50
--	75.0 °C	ISO 306/B50
Melting Temperature (DSC)	130 °C	ISO 3146
Additional Information	Nominal Value Unit	Test Method
Staudinger Index	370 cm ³ /g	ISO 1628
Extrusion	Nominal Value Unit	
Melt Temperature	180 to 220 °C	