

Lupolen 4261 AG UV 60005

High Density Polyethylene

LyondellBasell Industries

Technical Data

Product Description

Lupolen 4261 AG UV 60005 is a high density polyethylene with outstanding ESCR, high impact resistance and good chemical resistance. It is delivered in pellet form and contains antioxidants and a UV-stabiliser. Typical customer applications include IBC for the packaging of dangerous goods and heating oil tanks. Lupolen 4261 AG UV 60005 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	
Additive	• Antioxidant	• UV Stabilizer	
Features	• Antioxidant • Good Chemical Resistance	• Good Creep Resistance • High ESCR (Stress Crack Resist.)	• High Impact Resistance
Uses	• Industrial Tanks	• Packaging	
Agency Ratings	• EC 1907/2006 (REACH)		
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