

Lupolen 4261 AG UV 60005

Polyethylene, High Density

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.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Processing Methods	Extrusion Blow Molding
Features	Antioxidant, Good Chemical Resistance, Good Creep Resistance , High ESCR (Environmental Stress Cracking Resistance), High Impact Resistance
Typical Customer Applications	Heating Oil Tanks, IBCs

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.945	g/cm ³
Melt flow rate (MFR)	ISO 1133		
(190°C/21.6kg)		6.0	g/10 min
(190°C/5.0kg)		0.35	g/10 min
Bulk density	ISO 60	>0.500	g/cm ³
Mechanical			
Tensile Modulus (23 °C)	ISO 527-1, -2	850	MPa
Tensile Stress at Yield (23 °C)	ISO 527-1, -2	24.0	MPa
Tensile Strain at Yield	ISO 527-1, -2	10	%
Tensile Impact Strength	ISO 8256		
(Type 1, Method A, -30 °C)		170	kJ/m ²
Note: notched			
Hardness			
Ball indentation hardness (H 132/30)	ISO 2039-1	40.0	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	70.0	°C
Heat deflection temperature A (1.80 MPa) Unannealed	ISO 75A-1, -2	42.0	°C
Vicat softening temperature	ISO 306		
(B50 (50°C/h 50N))		75.0	°C
(A50 (50°C/h 10N))		125	°C
Melting Temperature	ISO 3146	130	°C

