HK:+852-69575415 China GuangDong:+13538586433 ShangHai:+18816996168

Lupolen 4261 AG UV

Polyethylene, High Density

Product Description

Lupolen 4261 AG UV is a high density polyethylene with outstanding ESCR, high impact resistance and good chemical resistance, delivered in pellet form. Main applications* are jerry cans, heating oil tanks and IBC. *Appropriateness of resin for use in specific applications, under outdoor or indoor storage conditions or for specific container contents should be carried out by the appropriate parties (converter, end user) on the molded item with reference to appropriate local, national and international guidelines.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	North America, Latin America
Processing Methods	Extrusion Blow Molding
Features	Antioxidant, Good Chemical Resistance, High ESCR (Environmental Stress Cracking Resistance), Medium Heat Resistance , High Impact Resistance , Good UV Resistance
Typical Customer Applications	Heating Oil Tanks, IBCs, Jerry Cans

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.945	g/cm³
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/cm³
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/m²
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

Additional Properties

ESCR (Basell bottle test): 4000 h
Electric Strength, IEC 93, K20/P50: >150 kV/mm
Staudinger Index Jg, ISO 1628: 370 ml/g

Processing temperature range: 180 - 220 °C

Notes

Typical properties; not to be construed as specifications.