Technical Data Sheet

Lupolen 4261AG UV

High Density Polyethylene

Product Description

Lupolen 4261AG UV is a high density polyethylene with outstanding Environmental Stress Cracking Resistance (ESCR), high impact resistance and good chemical resistance, delivered in pellet form. Main applications are Intermediate Bulk Containers (IBCs), jerry cans and heating oil tanks. 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.

Application	Heating Oil Tanks; Intermediate Bulk Containers; Jerry Cans
Market	Industrial Packaging
Processing Method	Extrusion Blow Molding
Attribute	Antioxidant; Good Chemical Resistance; High ESCR (Environmental Stress Cracking Resistance); High Impact Resistance; Medium Heat Resistance; UV Stabilized

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(190 °C/5.0 kg)	0.35	g/10 min	ISO 1133-1
(190 °C/21.6 kg)	6.0	g/10 min	ISO 1133-1
Density, (23 °C)	0.945	g/cm³	ISO 1183-1
Bulk Density, (23 °C)	>0.500	g/cm³	ISO 60
Intrinsic Viscosity	370	ml/g	ISO 1628-3
Mechanical			
Tensile Modulus, (23 °C)	850	MPa	ISO 527-1, -2
Tensile Stress at Yield, (23 °C)	24.0	MPa	ISO 527-1, -2
Tensile Strain at Yield, (23 °C)	10	%	ISO 527-1, -2
Environmental Stress Crack Resistance	4000	hr	LYB Method
Impact			
Tensile Impact Strength	170	kJ/m²	ISO 8256
(Notched, Type 1, Method A, -30 °C)			
Hardness			
Ball Indentation Hardness, (H 132/30)	40.0	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(A50)	125	°C	ISO 306
(B50)	75.0	°C	ISO 306
Heat Deflection Temperature A, (1.80 MPa, Unannealed)	42.0	°C	ISO 75A-1, -2

Heat Deflection Temperature B, (0.45 MPa, Unannealed)	70.0	°C	ISO 75B-1, -2
Melting Temperature	130	°C	ISO 3146
Electrical			
Dielectric Strength	>150	kV/mm	IEC 60243-1

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Recommended melt temperatures: 180 °C to 220 °C.

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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