Technical Data Sheet

Lupolen 5261Z

High Density Polyethylene

Product Description

Lupolen 5261Z is a high density polyethylene with high impact resistance, high rigidity, high chemical resistance and good ESCR. It is delivered in powder form and contains antioxidants. Typical customer applications include open top drums and jerry cans for the packaging of dangerous goods.

Lupolen 5261Z is not intended for use in medical and pharmaceutical applications.

This grade is supported for use in drinking water applications.

Application	Drums; Industrial Packaging; Jerry Cans
Market	Industrial Packaging
Processing Method	Extrusion Blow Molding
Attribute	Antioxidant; Good Chemical Resistance; High ESCR (Environmental Stress Cracking Resistance); High Impact Resistance; High Rigidity

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/21.6 kg)	2.0	g/10 min	ISO 1133-1
Density	0.954	g/cm³	ISO 1183-1
Bulk Density	>0.460	g/cm³	ISO 60
Intrinsic Viscosity	475	ml/g	ISO 1628-3
Mechanical			
Tensile Modulus	1200	MPa	ISO 527-1, -2
Tensile Stress at Yield	27	MPa	ISO 527-1, -2
Tensile Strain at Yield	9	%	ISO 527-1, -2
FNCT, (3.5 MPa, 2% Arkopal N100, 80 °C)	12	hr	ISO 16770
Impact			
Tensile Impact Strength	250	kJ/m²	ISO 8256
Note: notched, type 1, method A, -30 °C			
Hardness			
Ball Indentation Hardness, (H 132/30)	52	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(A/50 N)	132	°C	ISO 306
(B50)	80	°C	ISO 306
Deflection Temperature Under Load			
(0.45 MPa, Unannealed)	75	°C	ISO 75B-1, -2
(1.80 MPa, Unannealed)	44	°C	ISO 75A-1, -2
Peak Melting Point	134	°C	ISO 11357-3
Processing Parameters			
Melt Temperature	190 - 220	°C	

Notes

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