Lupolen 5261 Z HI

Polyethylene, High Density

Product Description

***Lupolen* 5261 Z HI** is a high density polyethylene with outstanding impact resistance, high rigidity, good chemical resistance and good ESCR. It is delivered in powder form and contains antioxidants. Typical customer applications include L-ring drums for the packaging of dangerous goods. ***Lupolen* 5261 Z HI** is not intended for use in medical and pharmaceutical applications

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Extrusion Blow Molding
Features	Antioxidant, Good Chemical Resistance, High ESCR (Environmental Stress Cracking Resistance), High Impact Resistance , High Rigidity
Typical Customer Applications	Blow Moulding Applications, Drums

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.954	g/cm³
Melt flow rate (MFR) (190°C/21.6kg)	ISO 1133	2.0	g/10 min
Bulk density	ISO 60	>0.460	g/cm³
Mechanical			
Tensile Modulus (23 °C)	ISO 527-1, -2	1200	MPa
Tensile Stress at Yield (23 °C)	ISO 527-1, -2	28.0	MPa
Tensile Strain at Yield	ISO 527-1, -2	8.0	%
Tensile Impact Strength (Type 1, Method A, -30 °C)	ISO 8256	280	kJ/m²
Note: notched			
Hardness			
Ball indentation hardness (H 132/30)	ISO 2039-1	52.0	MPa
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	75.0	°C
Heat deflection temperature A (1.80 MPa) Unannealed	ISO 75A-1, -2	44.0	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	133	°C

Additional Properties

ESCR (FNCT 3.5 MPa / 80°C, 2% Arkopal N100)(ISO 16770): 12 h
Electric Strength (IEC 93, K20/P50): >150 kV/mm
Staudinger Index Jg (ISO 1628): 500 ml/g
Processing Temperature Range: 190 - 220 °C