

Lupolen 5261 Z

High Density Polyethylene
LyondellBasell Industries

Message:

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

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Good Chemical Resistance		
	High Density		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	High Rigidity		
Uses	Med.-Wide Molecular Weight Distrib.		
	Blow Molding Applications		
	Drums		
	Industrial Applications		
	Jerricans		
Forms	Packaging		
	Powder		
Processing Method	Extrusion Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm ³	ISO 1183
Apparent Density	> 0.46	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	2.0	g/10 min	ISO 1133
FNCT - 3.5 MPa ⁻¹ (80°C)	12.0	hr	ISO 16770
Staudinger Index - Jg	475	cm ³ /g	ISO 1628
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 132/30)	52.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1200	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	27.0	MPa	ISO 527-2
Tensile Strain (Yield)	9.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (-30°C)	250	kJ/m ²	ISO 8256/1A

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	75.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	44.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	132	°C	ISO 306/A50
--	80.0	°C	ISO 306/B50
Melting Temperature (DSC)	134	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Electric Strength ²	> 150	kV/mm	IEC 60243-1
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 220	°C	
NOTE			
1.	2% Igepal BC/9		
2.	K20/P50		

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