

Lupolen 5261 ZS

High Density Polyethylene

LyondellBasell Industries

Message:

Lupolen 5261 ZS is a high density polyethylene with high ESCR, high impact resistance, high rigidity and high chemical resistance. It is delivered in powder form and contains antioxidants. Typical customer applications include drums and jerry cans for the packaging of dangerous goods. Lupolen 5261 ZS is not intended for se in medical and pharmacuetical applications.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Good Chemical Resistance		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	High Rigidity		
Uses	Blow Molding Applications		
	Drums		
	Jerricans		
	Packaging		
Forms	Powder		
Processing Method	Extrusion Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.951	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
Environmental Stress-Cracking Resistance ¹ (80°C, 2% Igepal)	20.0	hr	ISO 16770
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 132/30)	47.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	26.0	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	74.0	°C	ISO 75-2/B

1.8 MPa, Unannealed	42.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	130	°C	ISO 306/A50
--	78.0	°C	ISO 306/B50
Melting Temperature (DSC)	133	°C	ISO 3146
Electrical	Nominal Value	Unit	Test Method
Electric Strength ²	> 150	kV/mm	IEC 60243-1
Additional Information	Nominal Value	Unit	Test Method
Staudinger Index - Jg	475	cm ³ /g	ISO 1628
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 220	°C	
NOTE			
1.	FNCT 3.5 MPa; BC/9		
2.	K20/P50		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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