

Lupolen 4261 AG BD

High Density (HMW) Polyethylene

LyondellBasell Industries

Message:

Lupolen 4261 AG BD is a high molecular weight high density polyethylene (HDPE). Typical customer applications include automotive fuel tank applications if outstanding biodiesel durability is requested. It is supplied in pellets and is stabilized with antioxidants for the extrusion process. The product features an outstanding Environmental Stress Cracking Resistance (ESCR), good chemical resistance in combination with an excellent low temperature impact resistance. Typical processes include blow molding and thermoforming. Physical properties and process ability are very close to Lupolen 4261 AG.

Lupolen 4261 AG BD is not intended for use in medical and pharmaceutical applications. The product can not be used for food contact applications.

General Information	
Additive	Antioxidant
Features	Antioxidant
	Fuel Resistant
	Good Chemical Resistance
	High ESCR (Stress Crack Resist.)
	High Impact Resistance
	High Molecular Weight
Low Temperature Impact Resistance	
Uses	Blow Molding Applications
	Fuel Tanks
Forms	Pellets
Processing Method	Blow Molding
	Extrusion
	Extrusion Blow Molding
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	0.945	g/cm ³	ISO 1183
Apparent Density	> 0.50	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	6.0	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance	1000	hr	ASTM D1693B
FNCT ¹ (80°C)	3.3	day	ISO 16770
Oxidation Induction Time (200°C)	50	min	ISO 11357-6

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	900	MPa	ISO 527-2
Tensile Stress (Yield)	24.0	MPa	ISO 527-2
Tensile Strain (Yield)	10	%	ISO 527-2

Flexural Modulus	1100	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength			ISO 8256/1A
-30°C	170	kJ/m ²	
23°C	250	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	126	°C	ISO 306/A50
Melting Temperature (DSC)	131	°C	ISO 3146
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 240	°C	
NOTE			

1. 3.5 MPa, 2% Igepal BC/9

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Recommended distributors for this material

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

