

Lupolen 4261A IMBD

High Density (HMW) Polyethylene

LyondellBasell Industries

Message:

Lupolen 4261 A IM BD is a high molecular weight high density polyethylene (HDPE). Typical customer applications include components for automotive fuel tank applications if outstanding biodiesel durability is requested. It is supplied in pelletized form and is stabilized with antioxidants for the injection molding 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 injection moulding. Physical properties and process ability are very close to Lupolen 4261 A IM. Lupolen 4261 A IM 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		
	Good Chemical Resistance		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	High Molecular Weight		
Uses	Low Temperature Impact Resistance		
Uses	Fuel Tanks		
	Tanks		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm ³	ISO 1183
Apparent Density	> 0.50	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	15	g/10 min	ISO 1133
FNCT ¹ (80°C)	1.5	day	ISO 16770
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	800	MPa	ISO 527-2
Tensile Stress (Yield)	21.0	MPa	ISO 527-2
Tensile Strain (Yield)	10	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Tensile Impact Strength (-30°C)	140	kJ/m ²	ISO 8256/1A
Thermal	Nominal Value	Unit	Test Method
Melting Temperature (DSC)	130	°C	ISO 3146
Injection	Nominal Value	Unit	
Processing (Melt) Temp	230 to 280	°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

