

Lupolen 4261 A IM BD

Polyethylene, High Density

Product Description

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.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, North America, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Injection Molding
Features	Antioxidant, Biodiesel durability, High ESCR (Environmental Stress Cracking Resistance), High Impact Resistance
Typical Customer Applications	Fuel Tanks, Non-fuel Reservoirs

Typical Properties	Method	Value	Unit
Physical			
Density <i>Note: at 23°C</i>	ISO 1183	0.940	g/cm ³
Bulk density	ISO 60	> 500	g/cm ³
Melt flow rate (190/21,6)	ISO 1133	15	g/10 min
FNCT (3.5 MPa, 2% Arkopal N100, 80°C)	ISO 16770	35	h
Mechanical			
Tensile Impact Strength <i>Note: -30 °C, notched, Method 1/A</i>	ISO 8256	140	kJ/m ²
Elongation at yield <i>Note: Method 2</i>	ISO 527	10	%
Tensile stress at yield <i>Note: Method 2</i>	ISO 527	21	MPa
Tensile modulus	ISO 527	800	MPa
Thermal			
Melting Temperature	ISO 3146	130	°C

Additional Properties

Processing: Recommended melt temperatures: 230-280 °C.