

# Lupolen 4261A IM

Polyethylene, High Density

## Product Description

**Lupolen 4261 A IM** is a high molecular High Density Polyethylene (HDPE) typically used by our customers for components of automotive fuel tank applications. It is supplied in pelletised form and is stabilised with Antioxidants for the injection moulding process. The product features an outstanding Enviroment Stress Crack Resistance (FNCT), good chemical resistance in combination with an excellent low temperature impact resistance. Typical processing is injection moulding.

## Product Characteristics

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

Typical Properties	Method	Value Unit
<b>Physical</b>		
Density <i>Note: at 23°C</i>	ISO 1183	0.940 g/cm <sup>3</sup>
Bulk density	ISO 60	> 500 g/cm <sup>3</sup>
Melt flow rate (190/21,6)	ISO 1133	15 g/10 min
<b>Mechanical</b>		
Tensile Impact Strength <i>Note: -30 °C, notched, Method 1/B</i>	ISO 8256	140 kJ/m <sup>2</sup>
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
FNCT (4.0 MPa, 2% Arkopal N 100, 80°C)	ISO 16770	35 h
<b>Thermal</b>		
Melting Temperature	ISO 3146	130 °C

## Additional Properties

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

## Notes

Typical properties; not to be construed as specifications.