



Lupolen 5121 A

Polyethylene, High Density

Product Description

Lupolen 5121 A is a high molecular weight high density polyethylene (HDPE) resin used in blow molding applications. Typical customer applications include packagings for dangerous goods and consumer goods. It exhibits high rigidity and ESCR as well as good flowability and organoleptic properties. **Lupolen 5121 A** is delivered in pellet form, contains antioxidants and has a broad molecular weight distribution.

Lupolen 5121 A is not intended for use in medical and pharmaceutical applications.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Asia-Pacific, Australia/NZ, Africa-Middle East, Latin America
Processing Methods	Extrusion Blow Molding
Features	Antioxidant, Good Chemical Resistance, High ESCR (Environmental Stress Cracking Resistance), High Impact Resistance , Good Processability
Typical Customer Applications	Consumer Packaging, Jerry Cans

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.951	g/cm ³
Bulk density	ISO 60	>0.500	g/cm ³
Melt flow rate (190°21,6)	ISO 1133	5.0	g/10 min
FNCT (3.5 MPa, 2% Arkopal N100, 80°C)	ISO 16770	16	h
Mechanical			
Tensile Modulus	ISO 527-1, -2	1050	MPa
Tensile Stress at Yield	ISO 527-1, -2	25.0	MPa
Tensile Strain at Yield	ISO 527-1, -2	7.0	%
Tensile Impact Strength	ISO 8256	150	kJ/m ²
<i>Note: Notched, type 1, method A, -30 °C</i>			
Thermal			
Melting Temperature	ISO 3146	131	°C

Additional Properties

Recommended processing temperature: 180 - 220°C

Notes

Typical properties; not to be construed as specifications.