

Lupolen 3621 M RM

Polyethylene, Medium Density

Product Description

Lupolen 3621 M RM is a new generation hexene linear medium-density polyethylene for rotational molding. Typical customer applications include agricultural and chemical storage containers, technical parts and automotive parts. This product exhibits excellent ESCR and high impact strength at low temperatures. **Lupolen 3621 M RM** is a fully UV-stabilized and pelletized polymer. Tests have shown that this material is resisting against the harmful effect of biodiesel fuel.**

It is not intended for use in medical and pharmaceutical applications.

** Resistance is based on our latest patented technology

Product Characteristics

Test Method used	ISO
Processing Methods	Rotational Molding
Features	High ESCR (Environmental Stress Cracking Resistance), Low Temperature Impact Resistance, Good Processability, Low Warpage
Typical Customer Applications	Automotive Parts, Crates, Heavy Duty Packaging, IBCs, Technical parts

Typical Properties	Method	Value	Unit
Physical			
Density <i>Note: at 23°C</i>	ISO 1183	0.9355	g/cm ³
Melt flow rate (190/2.16)	ISO 1133	7.5	g/10 min
Mechanical			
ESCR <i>Note: Condition B</i>	ASTM D 1693	> 1000	h
Tensile Modulus	ISO 527-1, -2	700	MPa
Tensile Stress at Yield	ISO 527-1, -2	17	MPa
Tensile Strain at Yield	ISO 527-1, -2	10	%
Tensile Impact Strength <i>Note: Notched, type 1, method A, -30 °C</i> <i>Note: Notched, type 1, method A, 23 °C</i>	ISO 8256	104	kJ/m ²
		213	kJ/m ²
Tensile Strain at Break	ISO 527-1, -3	>450	%
Thermal			
Vicat softening temperature A/50	ISO 306	113	°C

Additional Information

Additional Properties

Note: FNCT (Full notch creep test) acc. ISO 16770 (6.0 MPa, 2% Arkopal N100, 50°C): **15 h**

Additional Properties

Processing: Recommended range for PIAT (Peak Internal Air Temperature) is 180 - 210 °C. PIAT should not exceed 225 °C.

Notes

Typical properties; not to be construed as specifications.

