

Technical Data Sheet

Lupolen 3621 M RM



Linear Low Density Polyethylene

Product Description

Lupolen 3621 M RM is a new generation hexene linear low density polyethylene for rotational molding. Typical customer applications include agricultural and chemical storage containers and technical parts. This product exhibits excellent ESCR and high impact strength at low temperatures. *Lupolen* 3621 M RM is a 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

This grade is supported for use in drinking water applications.

Application	Crates; Heavy Duty Packaging; Industrial; Industrial Packaging; Intermediate Bulk Containers; Tanks, Industrial
Market	Consumer Products; Industrial Packaging; Industrial, Building & Construction
Processing Method	Rotomolding
Attribute	Good Processability; High ESCR (Environmental Stress Cracking Resistance); Low Temperature Impact Resistance; Low Warpage

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (190 °C/2.16 kg)	7.5	g/10 min	ISO 1133-1
Density	0.9355	g/cm ³	ISO 1183-1
Mechanical			
Tensile Modulus	700	MPa	ISO 527-1, -2
Tensile Stress at Yield	17	MPa	ISO 527-1, -2
Tensile Strain at Break	> 450	%	ISO 527-1, -2
Tensile Strain at Yield	10	%	ISO 527-1, -2
Environmental Stress Crack Resistance, F ₅₀ Note: Cond. B, 10% Arkopal N100	> 1000	hr	ASTM D1693
FNCT, (6.0 MPa, 2% Arkopal N100, 50 °C)	15	hr	ISO 16770
Impact			
Tensile Impact Strength Note: notched, type 1, method A, -30 °C	104	kJ/m ²	ISO 8256
Thermal			
Vicat Softening Temperature, (A/50)	113	°C	ISO 306
Processing Parameters			
Peak Internal Air Temperature (PIAT) Recommended range. Note: PIAT should not exceed 225 °C.	180-210	°C	