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

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Asia-Pacific, Africa-Middle East
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 *Note*: at 23°C	ISO 1183	0.9355	g/cm³
Melt flow rate (190/2.16)	ISO 1133	7.5	g/10 min
Mechanical			
ESCR *Note*: Condition B	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	ISO 8256		
Note: Notched, type 1, method A, -30 °C		104	kJ/m²
Note: Notched, type 1, method A, 23 °C		213	kJ/m²
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.