Lupolen 3621 M RM Powder

Medium Density Polyethylene

LyondellBasell Industries

Message:

Lupolen 3621 M RM Powder 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 Powder is a fully UV-stabilized polymer. The product is delivered as a powder. 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

General Information			
Additive	UV stabilizer		
Features	Low warpage High ESCR (Stress Cracking Resistance) hexene comonomer Impact resistance, high Workability, good Low temperature impact resistance		
Uses	Packaging Engineering accessories Agricultural application Application in Automobile Field Container Loading box		
Forms	Powder		
Processing Method	rotomolding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	0.936	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.5	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance	> 1000	hr	ASTM D1693B
Full Notch Creep Test [1] (50°C)	15.0	hr	ISO 16770
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	700	MPa	ISO 527-2
Tensile Stress (Yield)	17.0	MPa	ISO 527-2
Tensile Strain (Yield)	10	%	ISO 527-2
Films	**Nominal Value**	**Unit**	**Test Method**
Tensile Elongation (Break)	> 450	%	ISO 527-3
Impact	**Nominal Value**	**Unit**	**Test Method**

Tensile Impact Strength			ISO 8256/1A
-30°C	104	kJ/m²	ISO 8256/1A
23°C	213	kJ/m²	ISO 8256/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	113	°C	ISO 306/A50
Extrusion	Nominal Value	Unit	
Melt Temperature	180 - 210	°C	
Extrusion instructions			
Processing: Recommended range for PIAT (Peak Internal Air Temperature) is 180 - 210 "C. PIAT should not exceed 225 °C.			
NOTE			
1.	6.0 MPa, 2% Arkopal N100		

Recommended distributors for this material

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