Lupolen 3621 M RM Black Powder

Medium Density Polyethylene

LyondellBasell Industries

Message:

Lupolen 3621 M RM Black Powder is the black compound version of the new generation hexene linear medium-density polyethylene LP 3621 M RM Black for rotational molding of a variety of articles. The product exhibits excellent ESCR, high impact strength at low temperatures and improved UV resistance. Lupolen 3621 M RM Black 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			
Features	Low warpage High ESCR (Stress Cracking Resistance) Impact resistance, high Good UV resistance Workability, good Low temperature impact resistance		
Uses	Engineering accessories Industrial application Fuel Tank		
Appearance	Black		
Forms	Powder		
Processing Method	rotomolding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density [1] (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 [2] (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.	Density value is given of the base polymer. Final density of the black product is higher due to pigmentation.		
2.	6.0 MPa, 2% Arkopal N100		

Recommended distributors for this material

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