

# Lupolen 3621 M RM Black

Medium Density Polyethylene

LyondellBasell Industries

## Message:

Lupolen 3621 M RM Black is the black compound version of the new generation hexene linear medium-density polyethylene LP 3621 M RM 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 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

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	Particle		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density <sup>1</sup> (23°C)	0.936	g/cm <sup>3</sup>	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 <sup>2</sup> (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/m <sup>2</sup>	ISO 8256/1A
23°C	213	kJ/m <sup>2</sup>	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			

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| 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  |

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