

# Lupolen 4021 K RM

Medium Density Polyethylene

LyondellBasell Industries

## Message:

Lupolen 4021 K RM is a new generation hexene linear medium-density polyethylene for rotomolding. Typical customer applications include large tanks including agricultural and chemical storage containers and underground and infrastructure applications.

Lupolen 4021 K 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

General Information			
Additive	UV stabilizer		
Features	Low warpage		
	High ESCR (Stress Cracking Resistance)		
	hexene comonomer		
	Workability, good		
	Low temperature impact resistance		
Uses	Industrial water tank		
	Agricultural water tank		
	Container		
	Water tank		
	Fuel Tank		
Forms	Particle		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance	> 1000	hr	ASTM D1693B
Full Notch Creep Test <sup>1</sup> (50°C)	2.1	day	ISO 16770
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	750	MPa	ISO 527-2
Tensile Stress (Yield)	19.0	MPa	ISO 527-2
Tensile Strain (Yield)	9.0	%	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	120	kJ/m <sup>2</sup>	ISO 8256/1A

23°C	265	kJ/m <sup>2</sup>	ISO 8256/1A
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	114	°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

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