Lupolen 4021 K RM Black Powder

Medium Density Polyethylene

LyondellBasell Industries

Message:

Lupolen 4021 K RM Black Powder is the black compound version of the new generation hexene linear medium-density polyethylene LP 4021 K RM for rotational molding. Typical customer applications include large tanks including underground and infrastructure applications. The product exhibits outstanding ESCR combined with high impact at low temperatures and improved UV resistance. Lupolen 4021 K 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			
Additive	UV stabilizer		
Features	Low warpage High ESCR (Stress Cracking Resistance) Workability, good Low temperature impact resistance		
Uses	Industrial application Industrial water tank Fuel Tank		
Appearance	Black		
Forms	Powder		
Processing Method	rotomolding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density [1]	0.940	g/cm³	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
FNCT [2] (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/m²	ISO 8256/1A
23°C	265	kJ/m²	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.	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

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China