lyondellbasell

Lupolen 4021 K RM

Polyethylene, Medium Density

Product Description

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

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Asia-Pacific, Africa-Middle East
Processing Methods	Rotational Molding
Features	High ESCR (Environmental Stress Cracking Resistance), Low Temperature Impact Resistance, Good Processability, Low Warpage
Typical Customer Applications	Fuel Tanks, Heating Oil Tanks, IBCs, Tanks, Industrial

Typical Properties	**Method**	**Value**	**Unit**
Physical			
Density	ISO 1183	0.9395	g/cm³
Note: at 23°C			
Melt flow rate (190/2.16)	ISO 1133	4,0	g/10 min
Mechanical			
ESCR	ASTM D 1693	> 1000	h
Note: Condition B			
Tensile Stress at Yield	ISO 527-1, -2	19	MPa
Tensile Strain at Yield	ISO 527-1, -2	9	%
Tensile Impact Strength	ISO 8256		
		120	kJ/m²
Note: Notched, type 1, method A, -30 °C			
		265	kJ/m²
Note: Notched, type 1, method A, 23 °C			
Tensile Strain at Break	ISO 527-1, -3	>450	%
Tensile modulus	ISO 527	750	MPa
Thermal			
Vicat softening temperature A/50	ISO 306	114	
Additional Information			
Additional Properties			
Note:			

FNCT (Full notch creep test) acc. ISO 16770 (6.0 MPa, 2% Arkopal N100, 50°C): **50 h**

Additional Properties

Processing: Recommended range for PIAT (Peak Internal Air Temperature) is 180 - 210 °C. PIAT should not exceed 225 °C.

Notes

Typical properties; not to be construed as specifications.