

Clearflex® RM 50 U

Linear Medium Density Polyethylene

Versalis S.p.A.

Message:

Clearflex RM 50 U is a linear medium density polyethylene resin, with antioxidants and UV stabilizers, suitable for rotomoulding applications. Items manufactured with Clearflex RM 50 U show good mechanical properties and high environmental stress crack resistance (ESCR).

Main Application

Thanks to good balance between mechanical properties and processability, Clearflex RM 50 U is recommended for the production of medium capacity containers and hardly shaped items.

General Information			
Additive	Antioxidant		
	UV Stabilizer		
Features	Antioxidant		
	Food Contact Acceptable		
	Good UV Resistance		
	High ESCR (Stress Crack Resist.)		
	Medium Density		
Uses	Containers		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Rotational Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.936	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (Injection Molded)	> 350	hr	ISO 22088
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Injection Molded)	54		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, Injection Molded	18.0	MPa	
Break, Injection Molded	21.0	MPa	
Tensile Strain (Break, Injection Molded)	> 700	%	ISO 527-2
Flexural Modulus (Injection Molded)	690	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Drop Impact Resistance (Rotomolded Specimen)	220	J/cm	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method

Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	114	°C	ISO 306/A
Melting Temperature	126	°C	Internal Method
Injection	Nominal Value	Unit	
Processing (Melt) Temp	230 to 280	°C	

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