

Flexirene® MR 50 U

Linear Low Density Polyethylene

Versalis S.p.A.

Message:

Flexirene MR 50 U is a linear low density polyethylene (LLDPE) with antioxidants, suitable for injection moulding application.

Parts made by Flexirene MR 50 U are characterised by optimum rigidity.

Main Application

Flexirene MR 50 U is recommended for the production of thin walled containers requiring high mechanical properties, lids, caps, closures, houseware and shock absorbers.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Food Contact Acceptable		
	High Rigidity		
	Low Density		
Uses	Caps		
	Closures		
	Household Goods		
	Lids		
	Thin-walled Containers		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.939	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	22	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Injection Molded)	56		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, Injection Molded	15.0	MPa	
Break, Injection Molded	15.0	MPa	
Tensile Strain (Break, Injection Molded)	> 500	%	ISO 527-2
Flexural Modulus (Injection Molded)	500	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -70.0	°C	ASTM D746
Vicat Softening Temperature	113	°C	ISO 306/A

Melting Temperature	126	°C	Internal Method
Injection	Nominal Value	Unit	
Rear Temperature	170 to 230	°C	
Middle Temperature	170 to 230	°C	
Front Temperature	170 to 230	°C	
Mold Temperature	10.0 to 40.0	°C	

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