

Eraclene® MM 80 U

High Density Polyethylene

Versalis S.p.A.

Message:

Eraclene MM 80 U is a high density polyethylene resin (HDPE) with antioxidants, suitable for injection moulding application. Eraclene MM 80 U is characterized by high rigidity and good impact resistance.

Main Application

Eraclene MM 80 U is specifically designed for pails and light-weight containers. Moreover, the product is suitable to manufacture dustbins and small industrial containers.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Impact Resistance		
	High Density		
	High Rigidity		
Uses	Containers		
	Industrial Containers		
	Pails		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	5.5	g/10 min	
190°C/5.0 kg	14	g/10 min	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	66		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, Compression Molded	28.0	MPa	
Break, Compression Molded	20.0	MPa	
Tensile Strain (Break, Compression Molded)	550	%	ISO 527-2
Flexural Modulus (Compression Molded)	1350	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact ¹ (Compression Molded)	110	J/m	ISO 180
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746
Vicat Softening Temperature	127	°C	ISO 306/A
Melting Temperature	135	°C	Internal Method
Injection	Nominal Value	Unit	
Rear Temperature	220 to 275	°C	
Middle Temperature	220 to 275	°C	
Front Temperature	220 to 275	°C	
Mold Temperature	10.0 to 40.0	°C	
NOTE			

1. Method A

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