

# Eraclene® MP 90 U

High Density Polyethylene

Versalis S.p.A.

## Message:

Eraclene MP 90 U is a high density polyethylene homopolymer resin (HDPE) with antioxidants, suitable for injection moulding application.

Eraclene MP 90 U has a narrow molecular weight distribution and a high density which makes it the perfect choice for manufactures requiring outstanding rigidity, warpage resistance and toughness.

### Main Application

Eraclene MP 90 U is specifically designed for bottle crates, cases, toys, trays and other similar objects requiring rigidity.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Toughness		
	High Density		
	High Rigidity		
	Homopolymer		
	Narrow Molecular Weight Distribution		
	Warp Resistant		
Uses	Crates		
	Support Trays		
	Toys		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.960	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	7.0	g/10 min	
190°C/5.0 kg	20	g/10 min	
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	69		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, Compression Molded	30.0	MPa	
Break, Compression Molded	17.0	MPa	
Tensile Strain (Break, Compression Molded)	400	%	ISO 527-2

Flexural Modulus (Compression Molded)	1450	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact <sup>1</sup> (Compression Molded)	100	J/m	ISO 180
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746
Vicat Softening Temperature	128	°C	ISO 306/A
Melting Temperature	137	°C	Internal Method
Injection	Nominal Value	Unit	
Rear Temperature	190 to 260	°C	
Middle Temperature	190 to 260	°C	
Front Temperature	190 to 260	°C	
Mold Temperature	10.0 to 40.0	°C	
NOTE			
1.	Method A		

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#### Recommended distributors for this material

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