

# Eraclene® MQ 70 U

High Density Polyethylene

Versalis S.p.A.

## Message:

Eraclene MQ 70 U is a high density polyethylene resin (HDPE), with antioxidants, suitable for injection moulding application.

Eraclene MQ 70 U is suggested in applications in which high creep, impact and stress cracking resistance are required.

### Main Application

Eraclene MQ 70 U is specifically designed to produce items with good mechanical properties: light-weight crates, houseware. For its flowability, the resin can be used whenever high production rate is a key issue.

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Creep Resistance		
	High Density		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
Uses	Crates		
	Household Goods		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	11	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, Compression Molded)	65		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, Compression Molded	25.0	MPa	
Break, Compression Molded	15.0	MPa	
Tensile Strain (Break, Compression Molded)	300	%	ISO 527-2
Flexural Modulus (Compression Molded)	1250	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact <sup>1</sup> (Compression Molded)	65	J/m	ISO 180
Thermal	Nominal Value	Unit	Test Method

Brittleness Temperature	< -60.0	°C	ASTM D746
Vicat Softening Temperature	125	°C	ISO 306/A
Melting Temperature	134	°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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