Eraclene® ML 70 U

High Density Polyethylene

Versalis S.p.A.

Message:

Eraclene ML 70 U is a high density polyethylene resin (HDPE) with antioxidants, suitable for injection moulding application.
Its narrow molecular weight distribution leads to high mechanical properties (rigidity, impact strength) together with high stress cracking resistance.
Main Application
Eraclene ML 70 U is suggested to produce items with high mechanical performances, industrial containers, pallets and lids for open drums.

General Information			
Additive	Antioxidant		
Features	Antioxidant Food Contact Acceptable High Density High ESCR (Stress Crack Resist.) High Impact Resistance High Rigidity Narrow Molecular Weight Distribution		
Uses	Industrial Containers Lids Pallets		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.951	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	2.8	g/10 min	
190°C/5.0 kg	8.0	g/10 min	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D, Compression Molded)	64		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 527-2
Yield, Compression Molded	25.0	MPa	
Break, Compression Molded	20.0	MPa	
Tensile Strain (Break, Compression Molded)	800	%	ISO 527-2
Flexural Modulus (Compression Molded)	1100	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**

Notched Izod Impact [1] (Compression Molded)	200	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	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		

Recommended distributors for this material

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