Eraclene® MS 80 U

High Density Polyethylene

Versalis S.p.A.

Message:

Eraclene MS 80 U is a gas phase high density polyethylene resin (HDPE) with antioxidants, suitable for injection moulding application.
This grade has a narrow molecular weight distribution and a high fluidity make it ideally for injection moulding applications.
The polymer has high thermal stability during extrusion and a good balance between fluidity and mechanical properties.
Main Application
Eraclene MS 80 U is an injection moulding grade designed for thin-walled (food containers) aerosol caps.

General Information			
Additive	Antioxidant		
Features	Antioxidant Food Contact Acceptable Good Thermal Stability High Density High Flow Narrow Molecular Weight Distribution		
Uses	Caps Thin-walled Packaging		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.955	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	27	g/10 min	ISO 1133
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	27.0	MPa	
Break, Compression Molded	10.0	MPa	
Tensile Strain (Break, Compression Molded)	100	%	ISO 527-2
Flexural Modulus (Compression Molded)	1300	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact [1] (Compression Molded)	40	J/m	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**

Brittleness Temperature	< -60.0	°C	ASTM D746
Vicat Softening Temperature	126	°C	ISO 306/A
Melting Temperature	135	°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

Recommended distributors for this material

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