Eraclene® MP 90 C

High Density Polyethylene

Versalis S.p.A.

Message:

Eraclene MP 90 C is a gas phase high density polyethylene homopolymer resin (HDPE) with antioxidants, suitable for injection moulding application. This grade has a narrow molecular weight distribution and a high density that make it ideally for injection moulding applications where outstanding rigidity, warp resistance and toughness are required. The polymer has high purity and high thermal stability during extrusion
Main Application
Eraclene MP 90 C has controlled organoleptic properties for the production of caps for PET bottles used for natural mineral water, fruit juice, etc.
Eraclene MP 90 C is suitable to produce moulded crates with requiring rigidity.

General Information			
Additive	Antioxidant		
Features	Antioxidant Food Contact Acceptable Good Organoleptic Properties Good Thermal Stability Good Toughness High Density High Purity High Rigidity Narrow Molecular Weight Distribution Warp Resistant		
Uses	Caps Crates		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.960	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	8.0	g/10 min	
190°C/5.0 kg	21	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 [1] (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		

Recommended distributors for this material

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