Eraclene® BC 82 L

High Density Polyethylene

Versalis S.p.A.

Message:

Eraclene BC 82 L is a high density polyethylene resin (HDPE), with antioxidants, suitable for blow moulding application. It is especially recommended for the production of containers up to 20 liters. Eraclene BC 82 L combines a very good stress cracking resistance with a good rigidity and impact strength. This resin exhibits a high melt strength together with a moderate swelling. Eraclene BC 82 L is characterized by an intermediate molecular weight distribution which balances overall performances with ease of processing.
Main Application
Eraclene BC 82 L is used to produce, with high-speed machines, blow moulded containers for household and industrial chemicals (detergents, bleaches, etc), cosmetics (shampoos, creams, lotions, etc.), health and medical aids. Eraclene BC 82 L is suitable for thin wall items and can be extruded into profiles and sheets.

General Information	
Additive	Antioxidant
Features	Antioxidant Food Contact Acceptable Good Impact Resistance Good Melt Strength Good Processability High Density High ESCR (Stress Crack Resist.) Med.-Wide Molecular Weight Distrib. Medium Rigidity
Uses	Blow Molding Applications Blown Containers Containers Cosmetic Packaging Industrial Containers Medical Packaging Profiles Sheet Thin-walled Parts
Agency Ratings	EU Food Contact, Unspecified Rating
Forms	Pellets
Processing Method	Blow Molding Extrusion Profile Extrusion Sheet Extrusion

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	0.25	g/10 min	
190°C/5.0 kg	0.90	g/10 min	
Environmental Stress-Cracking Resistance (Compression Molded)	> 150	hr	ISO 22088
Hardness	**Nominal Value**	**Unit**	**Test Method**
Shore Hardness (Shore D, Compression Molded)	63		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress			ISO 527-2
Yield, Compression Molded	26.0	MPa	
Break, Compression Molded	30.0	MPa	
Tensile Strain (Break, Compression Molded)	> 600	%	ISO 527-2
Flexural Modulus (Compression Molded)	1100	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact [1] (Compression Molded)	180	J/m	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Brittleness Temperature	< -60.0	°C	ASTM D746
Vicat Softening Temperature	123	°C	ISO 306/A
Melting Temperature	134	°C	Internal Method
NOTE			
1.	Method A		

Recommended distributors for this material

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