Eraclene® BC 82

High Density Polyethylene

Versalis S.p.A.

Message:

Eraclene BC 82 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 combines a 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 is characterized by an intermediate molecular weight distribution which balances overall performances with ease of processing.
Main Application
Eraclene BC 82 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 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
	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	0.953	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)	> 60.0	hr	ISO 22088
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	27.0	MPa	
Break, Compression Molded	30.0	MPa	
Tensile Strain (Break, Compression Molded)	> 600	%	ISO 527-2
Flexural Modulus (Compression Molded)	1200	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	125	°C	ISO 306/A
Melting Temperature	135	°C	Internal Method
NOTE			
1.	Method A		

Recommended distributors for this material

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