

Eraclene® BB 76

High Density Polyethylene

Versalis S.p.A.

Message:

Eraclene BB 76 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 30 liters. Eraclene BB 76 combines an excellent stress cracking resistance with a good rigidity and a high impact strength. For its overall characteristics, Eraclene BB 76 can be used to produce containers able to achieve UN homologation.

Main Application

Eraclene BB 76 is the ideal resin for packaging of household and industrial chemicals, detergents, fertilizers, adhesives and pesticides. Eraclene BB 76 can be also extruded to obtain profiles and sheets.

General Information			
Additive	Antioxidation		
Features	High ESCR (Stress Cracking Resistance)		
	Antioxidation		
	Impact resistance, high		
	Compliance of Food Exposure		
	Medium hardness		
Uses	Packaging		
	Blow molding applications		
	Industrial container		
	Industrial application		
	Sheet		
	Container		
	Profile		
Agency Ratings	European food contact, not rated		
Forms	Particle		
Processing Method	Blow molding		
	Sheet extrusion molding		
	Profile extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	0.952	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	10	g/10 min	ISO 1133
190°C/5.0 kg	0.40	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (Compression Molded)	> 750	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method

Durometer Hardness (Shore D, Compression Molded)	65		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield, molding	27.0	MPa	ISO 527-2
Fracture, molding	30.0	MPa	ISO 527-2
Tensile Strain (Break, Compression Molded)	> 600	%	ISO 527-2
Flexural Modulus (Compression Molded)	1200	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Impact strength of cantilever beam notch-Compression Molded	250	J/m	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746
Vicat Softening Temperature	126	°C	ISO 306/A
Melting Temperature	134	°C	Internal method
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	180 - 190	°C	
Cylinder Zone 2 Temp.	190 - 205	°C	
Melt Temperature	200 - 210	°C	
Die Temperature	200 - 210	°C	

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