



TECHNICAL DATA SHEET

BB2588 –(HIGH DENSITY POLYETHYLENE)**Product Description**

BB2588 is a multimodal, high-density polyethylene intended for blow moulding with high stiffness and superior environmental stress crack resistance (ESCR). This grade exhibits excellent organoleptic properties.

Application:

- BB2588 is recommended for use in up to 10 liters size detergents, cleaners, motor oils, cosmetics, personal care, household and industrial chemical bottles .

-Food packaging (Juices, Milk)

Special Features:

• Superior environmental stress crack resistance • High stiffness • Easy flow

Origin: Singapore

- Borouge Pte Ltd

Physical Properties	Conditions	Method	Value	Unit
Density		ISO 1183	958	kg/m ³
Melt Flow Rate (MFR ₂)	(190°C / 2.16kg)	ISO 1133	0.23	g/10 min
Melt Flow Rate (MFR ₅)	(190°C / 5.0kg)	ISO 1133	1.0	g/10 min
Melt Flow Rate (MFR ₂₁)	(190°C / 21.6kg)	ISO 1133	25.0	g/10 min
<u>Mechanical</u>				
Tensile Modulus	(1mm/min)	ISO 527-2	1400	MPa
Tensile Stress @ Yield	(50mm/min)	ISO 527-2	30.0	MPa
Tensile Strain @ Yield	(50mm/min)	ISO 527-2	9.0	%
Flexural Modulus	(2mm/min)	ISO 178	1500	MPa
Charpy Notched Impact	(23°C)	ISO 179	12	KJ/m ²
Shore Hardness	(Shore D-3 Sec.)	ASTM D2240	66	
IZOD notched impact	(23°C)	ASTM D256	160	J/m
<u>Thermal</u>				
VICAT Softening Temperature		ISO 306	27	°C
Crystallization Temperature		ISO 11357-3	120.5	°C
Melting Temperature		ISO 11357-3	132.0	°C
<u>Additional Properties</u>				
ESCR	(10% Igepal, F50)	ASTM D1693-B	>500	Hours



Processing techniques:

BB2588 is easy to extrude and can be used in all conventional blow moulding machines.

A melt temperature of 170 – 190°C is recommended.

Temperature:

- Barrel : 170 – 190°C
- Die : 175 – 190°C

Storage And Handling:

This product should be stored in dry conditions at temperature below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odor generation and color changes and can have negative effects on physical properties of this product.

Recycling:

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

