Technical Data Sheet

5200B

High Density Polyethylene

ILAM PETROCHEMICAL CO

Product Description

5200B is a blow molding grade manufactured by the suspension polymerization of ethylene monomer.
5200B is high density polyethylene with bimodal distribution of molecular mass. It provides excellent rigidity and impact strength.

Processing Method	Blow Molding
Additive	Acid Scavenger: Ca Stearate (1500 ppm); Anti Oxidant: Irganox 1010 (300 ppm), Irgafos 168 (300 ppm)
Application	Household and Chemical Containers Such as Detergents,Cleaners, Motor Oils (≤ 20 Litre)

Typical Properties	Value	Unit	Test Method
Physical			
Density	0.96	g/cm³	ISO 1183
MFR (2.16 kg, 190 °C)	0.32	g/10 min	ISO 1133-1
Mechanical			
Flexural Modulus (1% Secant)	1350	MPa	ISO 178
Tensile Strength at Yield (23 °C, 50 mm/min)	31	MPa	ISO 527-2
Tensile Elongation at Yield (23 °C, 50 mm/min)	9.1	%	ISO 527-2
Tensile Strength at Break (23 °C, 50 mm/min)	≥ 21	MPa	ISO 527-2
Tensile Elongation at Break (23 °C, 50 mm/min)	> 500	%	ISO 527-2
ESCR (Condition A, 50 °C, 10%, Igepal CO630, F50)	40	hr	ASTM D1693
Shore Hardness (Shore D)	64		ISO 868
Izod Impact Strength			
(Notched, -20°C)	42	J/m	ASTM D256
(Notched, 23 °C)	343	J/m	ASTM D256
Thermal			
Heat Deflection Temperature (0.46 MPa)	57	°C	ASTM D648
OIT (190 °C)	> 20	min	ASTM D3895
Vicat Softening Temperature (10 N, 50 °C/h)	128	°C	ASTM D1525
Melting Point	134	°C	ISO 11357-3

Processing Techniques

Typical processing conditions for 5200B
Melt Temperature : 190 -220 ° C

Packaging

25kg bag

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Storage

Polyethylene material / compound should be stored in a manner to prevent direct exposure to sunlight and/or heat. The storage area should also be dry and preferably doesn't exceed 50°C. ILPC would not give warranty to bad storage conditions lead to quality deterioration and inadequate product performance. It is advisable to process PE resin within 6 months after delivery