

# BL5200

High Density Polyethylene

## General Information

### Description

- ◆ For Blow Molding
- ◆ High stiffness, Excellent impact resistance, Good chemical resistance

### Applications

- ◆ Bottle (small, medium) and industrial chemical bottle, Toy

Properties <sup>1</sup>			
Physical	Test Method	Nominal Values	
Melt Flow Index (190°C, 2.16kg)	ASTM D1238	0.3 g/10min	
Density	ASTM D1505	0.963 g/cm <sup>3</sup>	
Mechanical			
Tensile Stress (Yield)	ASTM D638	290 kgf/cm <sup>2</sup>	28.4 MPa
Tensile Strain (Break)	ASTM D638	≥500 %	
Flexural Modulus	ASTM D790	13,500 kgf/cm <sup>2</sup>	1,324 MPa
Impact			
Notched IZOD Impact Strength (23°C)	ASTM D256	30 kgf·cm/cm	294 J/m
Thermal			
VICAT Softening Point	ASTM D1525	125 °C	
Additional			
ESCR	ASTM D1693	30 F <sub>50</sub> hr	

### NOTE

ISO 9001, 14001, /TS 16949

<sup>1</sup> Properties: these are not to be construed as specifications

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Properties <sup>1</sup>			
Physical	Test Method	Nominal Values	
Melt Flow Index (190°C, 2.16kg)	ISO 1133	0.3 g/10min	
Density	ISO 1183	0.963 g/cm <sup>3</sup>	
Mechanical			
Tensile Stress (Yield)	ISO 527	290 kgf/cm <sup>2</sup>	28.4 MPa
Tensile Strain (Break)	ISO 527	≥500 %	
Flexural Modulus	ISO 178	10,000 kgf/cm <sup>2</sup>	981 MPa
Impact			
Notched IZOD Impact Strength (23°C)	ISO 180	28 kgf·cm/cm	275 J/m
Thermal			
VICAT Softening Point	ISO 306	125 °C	
Additional			
ESCR	ASTM D1693	30 F <sub>50</sub> hr	

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