

SABIC[®] B5403

B5403 is a High Density Polyethylene specially developed for blow molding / Jerry cans and drums. The material offers an excellent combination of stiffness and ESCR and a high Impact resistance. This grade can be used in food contact applications. Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in ³	ASTM D1505

Melt Flow	2.6 g/10 min @Load 21.6 kg, Temperature 190 °C	2.6 g/10 min @Load 47.6 lb, Temperature 374 °F	ISO 1133
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Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	27.0 MPa	3920 psi	ASTM D638

Elongation at Yield	8.0 %	8.0 %	ISO 527-1/-2
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Tensile Modulus	1.20 GPa	174 ksi	Based on compression molded sheet.; ASTM D638
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Charpy Impact, Notched	8.00 J/cm ² @Temperature -30.0 °C	38.1 ft-lb/in ² @Temperature -22.0 °F	ISO 179
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Tensile Impact Strength	290 kJ/m ² @Temperature -30.0 °C	138 ft-lb/in ² @Temperature -22.0 °F	ISO 8256
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Descriptive Properties			
FNCT (3.5 MPa, 2 % Igepal BC/9, 80°C)	14 hrs		ISO 16770