

SABIC® B1054

B1054 is a High Density Polyethylene specially developed for blow molding and jerry cans. The material offers high stiffness, good processability and excellent combination of stiffness/ESCR.
Information provided by SABIC

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in ³	ASTM D1505
Melt Flow	0.45 g/10 min @Load 5.00 kg, Temperature 190 °C	0.45 g/10 min @Load 11.0 lb, Temperature 374 °F	ISO 1133
	9.5 g/10 min @Load 21.6 kg, Temperature 190 °C	9.5 g/10 min @Load 47.6 lb, Temperature 374 °F	ISO 1133
Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	ASTM D2240
Tensile Strength, Yield	27.0 MPa	3920 psi	ISO 527-1/-2
Elongation at Yield	10 %	10 %	ISO 527-1/-2
Tensile Modulus	1.25 GPa	181 ksi	ASTM D638
Tensile Impact Strength	90.0 kJ/m ² @Temperature -30.0 °C	42.8 ft-lb/in ² @Temperature -22.0 °F	ISO 8256
Descriptive Properties			
FNCT (3.5 MPa, 2 % Igepal BC/9, 80°C)	40 hrs		ISO 16770