

SABIC® B5429

B5429 grade is medium molecular weight High Density Polyethylene copolymer. They are primarily intended for blow molding articles of small sizes. B5429 series grades offer excellent combination of toughness, stress cracking resistance, load bearing strength with easy processability. The grade available with antistatic additive is B5429A.
Information provided by SABIC

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

ESCR 100% Igepal®	100 hour	100 hour	F50; ASTM D1693B
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ESCR 10% Igepal®	60 hour	60 hour	F50; ASTM D1693B
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Melt Flow	0.30 g/10 min @Load 2.16 kg, Temperature 190 °C	0.30 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238
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	29 g/10 min @Load 21.6 kg, Temperature 190 °C	29 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238
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Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240

Tensile Strength at Break	19.0 MPa	2760 psi	ASTM D638
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Tensile Strength, Yield	28.0 MPa	4060 psi	ASTM D638
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Elongation at Break	>= 500 %	>= 500 %	ASTM D638
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Flexural Strength	25.0 MPa	3630 psi	ASTM D790
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Flexural Modulus	1.00 GPa	145 ksi	ISO 178/1A
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1% Secant Modulus	1050 MPa	152000 psi	ASTM D638
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Izod Impact, Notched	1.80 J/cm	3.37 ft-lb/in	ASTM D256
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Thermal Properties	Metric	English	Comments
Vicat Softening Point	124 °C	255 °F	ASTM D1525

Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D746
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