

SABIC B5429/B5429A High Density Polyethylene for Blow Molding

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Blow Molding Grade

Material Notes:

Product Description: B5429 Series grades are 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 and easy processability. The grade available with antistatic additive is B5429A. **Typical Applications:** B5429 Series grades are classified as multipurpose blow molding grades. They may be blow molded into containers for household and industrial chemicals (e.g.. Detergents, bleach, fabric softeners, solvents, paints, etc), automotive supplies, foodstuffs, toiletries and cosmetics. They can also be used in other hollow thin-walled parts and profile extrusions. Information provided by SABIC.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-B5429B5429A-High-Density-Polyethylene-for-Blow-Molding.php

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
ESCR 10% Igepal®	60 hour	60 hour	F50; ASTM D1693B
Melt Flow	0.30 g/10 min	0.30 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	29 g/10 min	29 g/10 min	ASTM D1238
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength at Break	19.0 MPa	2760 psi	ASTM D638
Tensile Strength, Yield	28.0 MPa	4060 psi	ASTM D638
Elongation at Break	>= 500 %	>= 500 %	ASTM D638
Flexural Strength	25.0 MPa	3630 psi	ASTM D790
Flexural Modulus	1.00 GPa	145 ksi	ASTM D790
1% Secant Modulus	>= 1050 MPa	>= 152000 psi	ASTM D638
Izod Impact, Notched	1.80 J/cm	3.37 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D746

Processing Properties	Metric	English	Comments
Melt Temperature	190 - 220 °C	374 - 428 °F	

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