SABIC® HDPE B5429

High Density Polyethylene Copolymer

Saudi Basic Industries Corporation (SABIC)

Message:

SABIC® HDPE B5429 is a medium molecular weight high density polyethylene copolymer. It is typically used for blow moulding bottles of small sizes.
SABIC® HDPE B5429 offers a very good combination of toughness, stress cracking resistance (ESCR), load bearing strength and processability characteristics.
Typical applications.
SABIC® HDPE B5429 is classified as a multipurpose blow moulding grade. It may be blow moulded into containers for household and industrial chemicals (e.g. detergents, bleach, fabric softeners, solvents, paints, etc.), automotive supplies, foodstuffs, toiletries and cosmetics. It is typically also used for other hollow thin-walled parts and profile extrusions.
This product is not intended for and must not be used in any pharmaceutical/medical applications.

General Information	
Features	Copolymer
	Good Processability
	Good Toughness
	High Density
	High ESCR (Stress Crack Resist.)
	Medium Molecular Weight
Uses	Automotive Applications
	Bottles
	Containers
	Industrial Applications
	Profiles
	Thin-walled Parts
Processing Method	Blow Molding
	Extrusion
	Profile Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.30	g/10 min	
190°C/21.6 kg	29	g/10 min	
190°C/5.0 kg	1.5	g/10 min	
Environmental Stress-Cracking Resistance (10% Igepal CO-630, Compression Molded, F50)	40.0	hr	ASTM D1693B

Hardness	Nominal Value	Unit	Test Method

Shore Hardness (Shore D, Compression Molded)	61		ISO 868
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (2.00 mm, Compression Molded)	1050	MPa	ISO 527-2/1BA/50
Tensile Stress			ISO 527-2/1BA/50
Yield, 2.00 mm, Compression Molded	26.0	MPa	
Break, 2.00 mm, Compression Molded	28.0	MPa	
Tensile Strain (Break, 2.00 mm, Compression Molded)	> 1000	%	ISO 527-2/1BA/50
Flexural Modulus (2.00 mm, Compression Molded)	1250	MPa	ISO 178
Flexural Stress (2.00 mm, Compression Molded)	27.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength			ISO 180/A
-30°C, Compression Molded	5.0	kJ/m^2	
23°C, Compression Molded	12	kJ/m^2	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa, Unannealed)	81.0	°C	ASTM D648
Vicat Softening Temperature	127	°C	ASTM D1525 [1]
Melting Temperature	132	°C	DIN 53765
Enthalpy Change	205	J/g	DIN 53765
Blow Molding Melt Temperature	165 to 215	°C	
NOTE			
1.	Loading 1 (10 N)		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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