

## POLYMERS

# SABIC<sup>®</sup> HDPE Blow molding

## B5429

Series

### 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 with 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 (eg. 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.

### TYPICAL DATA

PROPERTIES	Unit	Value <sup>(1)</sup>	Test Method
Melt Flow Rate			
@ 190°C & 2.16 kg load	g/10 min	0.3	ASTM D 1238
@ 190°C & 21.6 kg load		29	
Density @ 23°C	Kg/m <sup>3</sup>	954	ASTM D 1505
<b>MECHANICAL PROPERTIES<sup>(2)</sup></b>			
1% Secant Modulus	MPa	1050	ASTM D 638
Tensile Strength @ Yield	MPa	28	ASTM D 638
Tensile Strength @ Break	MPa	19	ASTM D 638
Tensile Elongation @ Break	%	>500	ASTM D 638
Flexural Strength	MPa	25	ASTM D 790
Flexural Modulus	MPa	1000	ASTM D 790
Izod Impact	J/m	180	ASTM D 256
Hardness (Shore D)	-	65	ASTM D 2240
ESCR (100% Igepal), F50	Hrs	100	ASTM D 1693B
ESCR (10% Igepal), F50	Hrs	60	
<b>THERMAL PROPERTIES</b>			
Vicat Softening Point	°C	124	ASTM D 1525
Brittleness Temperature	°C	<-75	ASTM D 746