

B5429 Series

HDPE for Blow Molding

B5429 Series resins are Medium molecular weight High Density Polyethylene (HDPE) copolymers. The products are primarily intended for blow molding bottles of small sizes. B5429 Series offers excellent combination of toughness, stress cracking resistance, load bearing strength and processability characteristics.

B5429 Series includes the following:

Grade	Antistatic
B5429	None
B5429A	Yes

Typical Applications

B5429 Series resins 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.

Physical Properties	Unit	Value ⁽¹⁾	ASTM Method
Melt index	g/10 min.	0.3	D-1238
HLMI ⁽²⁾	g/10 min.	29	D-1238
Density	g/cm ³	0.954	D-1505
Vicat softening point	°C	128	D-1525
Brittleness temperature	°C	< -75	D-746
Secant modulus @1%elongation	MPa	1150	D-638
Tensile strength @yield	MPa	30	D-638
Tensile strength @break	MPa	32	D-638
Elongation @break	%	850	D-638
Izod impact	J/m	200	D-256
Hardness (shore D)	-	67	D-2240
ESCR (100%Igepal), F ₅₀	Hrs.	90	D-1693B

Test specimen is prepared from compression molded sheet made according to ASTM D-1928 Procedure C.

(1) Typical values should not be construed as specification limits.

(2) High Load Melt Index has been found to be more accurate reference for B5429.

Processing Conditions

Barrel temperature = 165 - 215 °C.

Food Regulation

Certificate is available on request.

NOTICE: The information and data contained herein are believed to be correct and given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of product, no warranty is given or is to be implied with respect to such information, nor do we offer any warranty of immunity against infringement.

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