



SABIC® HDPE B5428

HIGH DENSITY POLYETHYLENE

DESCRIPTION

HDPE B5428 is a medium molecular weight high density polyethylene resin used for blow molding. Blow molded parts made from this resin exhibit high stiffness, good impact strength and good Environmental Stress-Cracking Resistance (ESCR).

TYPICAL APPLICATIONS

Small and medium size containers for household and industrial chemicals

TYPICAL PROPERTY VALUES

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES ⁽¹⁾			
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	0.3	g/10 min	ASTM D1238
at 190°C and 21.6 kg	28	g/10 min	ASTM D1238
Density at 23°C	954	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES ⁽²⁾			
1% Secant Modulus	1200	MPa	ASTM D638
Tensile Strength at Yield	27	MPa	ASTM D638
Tensile Elongation at Break	>700	%	ASTM D638
Flexural Modulus	1100	MPa	ISO 178/1A
Izod Impact Strength	130	J/m	ASTM D256
Hardness (Shore D)	68	-	ASTM D2240
ESCR (100% Igepal), F50	>100	Hrs	ASTM D1693B
THERMAL PROPERTIES			
Vicat Softening Point	127	°C	ASTM D1525