HDPE BICSOL H2055B

High Density Polyethylene

Technical Data Sheet

BICSOL H2055B provides good processing characteristics and exhibits excellent toughness and color as well as low odor and good molded-part stability. Typical applications include housewares, caps, closures and various food containers.

Processing Method: Injection Molding **Application: Caps & Closures; Containers; House wares**

Typical Properties	Nominal Values	English Units	Nominal Values	SI Units	Test Method
Melt Flow Rate (190°C, 2.16 kg)	20	g/10 min	20	g/10 min	ASTM D1238
Density	0.955	g/cm³	0.955	g/cm³	ASTM D1505
Spiral Flow	14.8	in	37.6	cm	
Tensile Stress at Break (23 °C)	3920	Psi	24.0	MPa	ASTM D638
Tensile Elongation at Break (23 °C)	9	%	9	%	ASTM D638
Notched Izod Impact Strength, (23 °C)	0.55	ft-lb/in	29	J/m	ASTM D256
Unnotched Impact Strength (-18 °C)	14	ft-lb/in	750	J/m	ASTM D4812
Shore Hardness, (Shore D, max)	70		70		ASTM D2240
Flexural Young's Modulus	181000	Psi	1250	MPa	ASTM D790
Tensile Modulus, (1% Secant)	108000	Psi	845	MPa	ASTM D638
1% Secant Flexural Modulus	167000	Psi	1150	MPa	ASTM D790
2% Secant Flexural Modulus	140000	Psi	965	MPa	ASTM D790
Vicat Softening Temperature	257	°F	125	°C	ASTM D1525
Low Temperature Brittleness	-4	°F	-20	°C	ASTM D746
Deflection Temperature Under Load	162	°F	72	°C	ASTM D648
Melting Temperature	268.2	°F	129	°C	ASTM D3418
Crystallization Temperature	241.0	°F	115	°C	ASTM D3418

Notes:
***The specifications listed are based on representative samples and not the actual product shipped.**
***Typical properties: these are not to be construed as specifications.**