HDPE BICSOL H1856B

High Density Polyethylene

Technical Data Sheet

BICSOL H1856B provides easy processing characteristics and exhibits excellent toughness properties and color as well as low odor and good processing stability. Typical applications include housewares, containers, caps and closures.

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)	18	g/10 min	18	g/10 min	ASTM D1238
Density	0.956	g/cm³	0.956	g/cm³	ASTM D1505
Spiral Flow	11.7	in	29.7	cm	
Tensile Strength at Break (23 °C)	3480	Psi	24.0	MPa	ASTM D638
Tensile Strength at Yield (23 °C)	4230	Psi	29.2	MPa	ASTM D638
Tensile Elongation at Break (23 °C)	62	%	62	%	ASTM D638
Tensile Elongation at Yield (23 °C)	8	%	8	%	ASTM D638
Notched Izod Impact Strength, (23 °C)	0.58	ft-lb/in	31	J/m	ASTM D256
Unnotched Impact Strength (-18 °C)	No break		No break		ASTM D4812
Shore Hardness, (Shore D, max)	69		69		ASTM D2240
Tensile Modulus, (1% Secant)	123000	Psi	848	MPa	ASTM D638
1% Secant Flexural Modulus	204000	Psi	1410	MPa	ASTM D790
2% Secant Flexural Modulus	171000	Psi	1180	MPa	ASTM D790
Vicat Softening Temperature	256	°F	125	°C	ASTM D1525
Low Temperature Brittleness	<-105	°F	<-76	°C	ASTM D746
Deflection Temperature Under Load	163	°F	73	°C	ASTM D648
Melting Temperature	266.4	°F	130.2	°C	ASTM D3418
Crystallization Temperature	241.7	°F	116.5	°C	ASTM D3418