

Technical Data Sheet

Diamond ABS 7600B-1002



Acrylonitrile Butadiene Styrene

Product Description

Diamond ABS 7600B-1002 is a Acrylonitrile Butadiene Styrene material and is typically used in Blow Molding applications. Features include: Ultra High Impact Resistance.

Processing Method Blow Molding
Attribute Ultra High Impact Resistance

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(200 °C/5.0 kg, Procedure A)	0.60	g/10 min	ASTM D1238
(230 °C/3.8 kg, Procedure A)	2.7	g/10 min	ASTM D1238
Mechanical			
Tensile Strength at Yield, (51 mm/min)	39.5	MPa	ASTM D638
Flexural Modulus, (1.3 mm/min, Tangent)	2010	MPa	ASTM D790
Impact			
Notched Izod Impact, (23 °C, 3.18 mm)	430	J/m	ASTM D256
Hardness			
Rockwell Hardness, (R-Scale)	102		ASTM D785
Thermal			
Vicat Softening Temperature, (Loading 1 (10 N))	104	°C	ASTM D1525
Deflection Temperature Under Load Annealed (264 psi), (3.18 mm)	93.9	°C	ASTM D648
Deflection Temperature Under Load Unannealed (264 psi), (3.18 mm)	77.2	°C	ASTM D648
UL Information			
Flame Rating, (1.5 mm)	HB		UL 94
UL File Number	E119088		

Injection Parameters	Nominal Value	Units
Drying Time	2.0 to 4.0	hr
Drying Temperature	80 to 85	°C
Suggested Max Moisture	0.1	%
Front Temperature	190 to 250	°C
Middle Temperature	190 to 250	°C
Rear Temperature	190 to 250	°C
Injection Rate	Moderate-Fast	
Mold Temperature	40 to 80	°C