

Diamond ABS 7600B

Acrylonitrile Butadiene Styrene
Network Polymers, Inc.

Message:

Diamond ABS 7600B is an Acrylonitrile Butadiene Styrene (ABS) product. It can be processed by blow molding and is available in North America. Characteristics include:
Flame Rated
Impact Resistant

General Information			
UL YellowCard	E51193-101898804		
Features	Ultra High Impact Resistance		
UL File Number	E119088		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) ¹			ASTM D1238
200°C/5.0 kg	0.60	g/10 min	
230°C/3.8 kg	2.7	g/10 min	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	102		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	39.5	MPa	ASTM D638
Flexural Modulus - Tangent ³	2010	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	430	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
1.8 MPa, Unannealed, 3.18 mm	77.2	°C	
1.8 MPa, Annealed, 3.18 mm	93.9	°C	
Vicat Softening Temperature	104	°C	ASTM D1525 ⁴
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 85.0	°C	
Drying Time	2.0 to 4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	190 to 250	°C	
Middle Temperature	190 to 250	°C	
Front Temperature	190 to 250	°C	
Mold Temperature	40.0 to 80.0	°C	
Injection Rate	Moderate-Fast		

NOTE	
1.	Procedure A
2.	51 mm/min
3.	1.3 mm/min
4.	Loading 1 (10 N)

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