

# Abstron HI40B

Acrylonitrile Butadiene Styrene  
Bhansali Engineering Polymers Limited

Message:

Abstron HI40B is an Acrylonitrile Butadiene Styrene (ABS) product. It can be processed by injection molding and is available in Asia Pacific. Typical application: Automotive.  
Characteristics include:  
Flame Rated  
Impact Resistant

General Information			
Features	Paintable		
	Ultra High Impact Resistance		
Uses	Automotive Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	18	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	109		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, 3.20 mm, Injection Molded)	40.2	MPa	ASTM D638
Flexural Modulus <sup>2</sup> (6.40 mm, Injection Molded)	2160	MPa	ASTM D790
Flexural Strength <sup>3</sup> (6.40 mm, Injection Molded)	57.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.20 mm, Injection Molded	470	J/m	
23°C, 6.40 mm, Injection Molded	370	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load <sup>4</sup> (1.8 MPa, Annealed, 6.40 mm, Injection Molded)	94.0	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating (3.20 mm)	HB		UL 94
NOTE			
1.	Type I, 5.0 mm/min		
2.	5.0 mm/min		

- |    |                           |
|----|---------------------------|
| 3. | 5.0 mm/min                |
| 4. | Annealed at 85°C for 2 hr |

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