

# Abstron HI40H

Acrylonitrile Butadiene Styrene

Bhansali Engineering Polymers Limited

## Message:

Abstron HI40H 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

Rigid

General Information			
Features	High Rigidity Medium Impact Resistance Paintable		
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)	16	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)	49.0	MPa	ASTM D638
Flexural Modulus <sup>2</sup> (6.40 mm, Injection Molded)	2450	MPa	ASTM D790
Flexural Strength <sup>3</sup> (6.40 mm, Injection Molded)	71.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.20 mm, Injection Molded	290	J/m	
23°C, 6.40 mm, Injection Molded	250	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load <sup>4</sup> (1.8 MPa, Annealed, 6.40 mm, Injection Molded)	97.0	°C	ASTM D648
Flammability	Nominal Value	Unit	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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