

Abstron HI40I

Acrylonitrile Butadiene Styrene
Bhansali Engineering Polymers Limited

Message:

Abstron HI40I 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		
	Paintable		
	Ultra High Impact Resistance		
Uses	Automotive Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	14	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)	103		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm, Injection Molded)	45.1	MPa	ASTM D638
Flexural Modulus ² (6.40 mm, Injection Molded)	2160	MPa	ASTM D790
Flexural Strength ³ (6.40 mm, Injection Molded)	63.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.20 mm, Injection Molded	440	J/m	
23°C, 6.40 mm, Injection Molded	340	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁴ (1.8 MPa, Annealed, 6.40 mm, Injection Molded)	95.0	°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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