

# Abstron SE45I

Acrylonitrile Butadiene Styrene

Bhansali Engineering Polymers Limited

## Message:

Abstron SE45I is an Acrylonitrile Butadiene Styrene (ABS) product. It can be processed by pipe extrusion, profile extrusion, or sheet extrusion and is available in Asia Pacific. Applications of Abstron SE45I include plumbing/piping/potable water and sheet.

Characteristics include:

Flame Rated

Impact Resistant

Rigid

General Information			
Features	High Rigidity Low Flow Ultra High Impact Resistance		
Uses	Piping Profiles Sheet		
Processing Method	Pipe Extrusion Profile Extrusion Sheet Extrusion		
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)	3.5	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)	102		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, 3.20 mm, Injection Molded)	45.1	MPa	ASTM D638
Flexural Modulus <sup>2</sup> (6.40 mm, Injection Molded)	2060	MPa	ASTM D790
Flexural Strength <sup>3</sup> (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	460	J/m	
23°C, 6.40 mm, Injection Molded	360	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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### Recommended distributors for this material

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