

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 ³	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 ¹ (Yield, 3.20 mm, Injection Molded)	45.1	MPa	ASTM D638
Flexural Modulus ² (6.40 mm, Injection Molded)	2060	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	460	J/m	
23°C, 6.40 mm, Injection Molded	360	J/m	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load ⁴ (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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