

Abstron SE45

Acrylonitrile Butadiene Styrene
Bhansali Engineering Polymers Limited

Message:

Abstron SE45 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 SE45 include plumbing/piping/potable water and sheet.

Characteristics include:

Flame Rated

Impact Resistant

General Information			
Features	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)	5.0	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)	108		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.20 mm, Injection Molded)	38.2	MPa	ASTM D638
Flexural Modulus ² (6.40 mm, Injection Molded)	1860	MPa	ASTM D790
Flexural Strength ³ (6.40 mm, Injection Molded)	54.9	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
23°C, 3.20 mm, Injection Molded	570	J/m	
23°C, 6.40 mm, Injection Molded	440	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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