

ABSCOM® SE180

Acrylonitrile Butadiene Styrene
Polymer Compounds Limited

Message:

ABSCOM SE180 is a high impact extrusion ABS grade of exceptional toughness. Typical applications include electrical ducting.

General Information			
Features	Good Toughness		
	High Impact Resistance		
Uses	Electrical/Electronic Applications		
Agency Ratings	WRAS Unspecified Rating		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	6.0	g/10 min	ISO 1133
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4
Water Absorption			ISO 62
Saturation, 23°C	1.0	%	
Equilibrium, 23°C, 50% RH	0.22	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1900	MPa	ISO 527-2/1
Tensile Stress			
Yield	38.0	MPa	ISO 527-2/50
Yield, -40°C	63.0	MPa	ISO 527-2
Yield, 80°C	19.0	MPa	ISO 527-2
Tensile Strain			
Yield	2.8	%	ISO 527-2/50
Yield, -40°C	1.6	%	ISO 527-2
Yield, 80°C	2.4	%	ISO 527-2
Break	9.0	%	ISO 527-2
Flexural Stress	56.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	32	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	101	°C	ISO 75-2/B
1.8 MPa, Unannealed	96.0	°C	ISO 75-2/A

Vicat Softening Temperature	94.0	°C	ISO 306/B50
CLTE - Flow	9.5E-6	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.800 mm	HB		
1.50 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	250	°C	
Mold Temperature	60.0	°C	
Injection Velocity	60	mm/sec	

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