

ABSCOM® FT3450

Acrylonitrile Butadiene Styrene
Polymer Compounds Limited

Message:

ABSCOM FT3450 is a medium heat ABS grade with applications such as domestic appliances and automotive interior.

General Information			
Features	Medium Heat Resistance		
Uses	Appliances		
	Automotive Interior Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	17	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	2300	MPa	ISO 527-2/1
Tensile Stress			
Yield	45.0	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	2.6	%	ISO 527-2/50
Yield, -40°C	3.6	%	ISO 527-2
Yield, 80°C	2.4	%	ISO 527-2
Break	12	%	ISO 527-2
Flexural Stress	65.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact Strength (23°C)	16	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	103	°C	ISO 75-2/Be

1.8 MPa, Unannealed	99.0	°C	ISO 75-2/Ae
Vicat Softening Temperature	102	°C	ISO 306/B50
CLTE - Flow	9.5E-5	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	240	°C	
Mold Temperature	60.0	°C	
Injection Velocity	65	mm/sec	

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