

ABSCOM® S140GHR

Acrylonitrile Butadiene Styrene
Polymer Compounders Limited

Message:

ABSCOM S140GHR is a high impact ABS grade used for both injection moulding and extrusion.

General Information			
Features	High Impact Resistance		
Forms	Pellets		
Processing Method	Extrusion		
	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)	9.0	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	2200	MPa	ISO 527-2/1
Tensile Stress			
Yield	49.0	MPa	ISO 527-2/50
Yield, -40°C	66.0	MPa	ISO 527-2
Yield, 80°C	21.0	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	68.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	24	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact Strength (23°C)	25	kJ/m ²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	89.0	°C	ISO 75-2/Be
1.8 MPa, Unannealed	85.0	°C	ISO 75-2/Ae

Vicat Softening Temperature	94.0	°C	ISO 306/B50
CLTE - Flow	9.5E-4	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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