

ESPREE™ ABS5GF

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

ESPREE™ ABS5GF is an Acrylonitrile Butadiene Styrene (ABS) product filled with 5.0% glass fiber. It can be processed by injection molding and is available in North America.

General Information			
Filler / Reinforcement	Glass Fiber,5.0% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.40 to 0.90	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.18 mm)	43.1	MPa	ASTM D638
Flexural Modulus ² (3.18 mm)	2900	MPa	ASTM D790
Flexural Strength ³ (3.18 mm)	62.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.35 mm)	94.4	°C	ASTM D648
Injection	Nominal Value	Unit	
Drying Temperature	87.8	°C	
Drying Time	2.0	hr	
Drying Time, Maximum	8.0	hr	
Processing (Melt) Temp	232 to 260	°C	
Mold Temperature	48.9 to 65.6	°C	
Back Pressure	0.345 to 1.38	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	5.1 mm/min		
2.	1.3 mm/min		
3.	1.3 mm/min		

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