ESPREE™ ABS20GF

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

ESPREE™ ABS20GF is an Acrylonitrile Butadiene Styrene (ABS) product filled with 20% glass fiber. It can be processed by injection molding and is available in North America. Primary characteristic: flame rated.

General Information			
UL YellowCard	E121562-100305627		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.20	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.10 to 0.20	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1] (Yield, 3.18 mm)	68.9	MPa	ASTM D638
Flexural Modulus [2] (3.18 mm)	5170	MPa	ASTM D790
Flexural Strength [3] (3.18 mm)	89.6	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	53	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.35 mm)	98.9	°C	ASTM D648
Flammability	**Nominal Value**		**Test Method**
Flame Rating (1.50 mm, BLK)	HB		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	87.8	°C	
Drying Time	2.0	hr	
Drying Time, Maximum	4.0	hr	
Processing (Melt) Temp	232 to 260	°C	
Mold Temperature	48.9 to 65.6	°C	
Back Pressure	0.689 to 2.07	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	5.1 mm/min		
2.	1.3 mm/min		
3.	1.3 mm/min		

Recommended distributors for this material

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