

# ESPREE™ ABS15GF

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

## Message:

ESPREE™ ABS15GF is an Acrylonitrile Butadiene Styrene (ABS) product filled with 15% glass fiber. It can be processed by injection molding and is available in North America.

General Information			
Filler / Reinforcement	Glass Fiber, 15% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.15	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.50 to 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, 3.18 mm)	55.2	MPa	ASTM D638
Flexural Modulus <sup>2</sup> (3.18 mm)	4140	MPa	ASTM D790
Flexural Strength <sup>3</sup> (3.18 mm)	75.8	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
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	0.689 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		

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Recommended distributors for this material

# Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

