

ESPREE™ NY613GF

Polyamide 6
SABIC Innovative Plastics

Message:
ESPREE™ NY613GF is a Polyamide 6 (Nylon 6) product filled with 13% glass fiber. It can be processed by injection molding and is available in North America.

General Information			
Filler / Reinforcement	Glass Fiber, 13% Filler by Weight		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Ultimate, 3.18 mm)	103	MPa	ASTM D638
Flexural Modulus ² (3.18 mm)	4480	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	191	°C	ASTM D648
Melting Temperature	216	°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	2.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Shot Size	40 to 80	%	
Rear Temperature	227 to 260	°C	
Middle Temperature	243 to 277	°C	
Front Temperature	260 to 293	°C	
Nozzle Temperature	260 to 293	°C	
Processing (Melt) Temp	260 to 293	°C	
Mold Temperature	65.6 to 110	°C	
Back Pressure	0.172 to 1.03	MPa	
Screw Speed	50 to 150	rpm	
NOTE			
1.	5.1 mm/min		
2.	1.3 mm/min		

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Recommended distributors for this material

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