

# ESPREE™ RYY33

Polyamide 66  
SABIC Innovative Plastics

Message:

ESPREE™ RYY33 is a Polyamide 66 (Nylon 66) product filled with 33% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Heat Stabilizer

General Information			
UL YellowCard	E121562-100305659		
Filler / Reinforcement	Glass Fiber,33% Filler by Weight		
Additive	Heat Stabilizer		
Features	Heat Stabilized		
UL File Number	E134027		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.37	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.30 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Ultimate, 3.18 mm)	172	MPa	ASTM D638
Flexural Modulus <sup>2</sup> (3.18 mm, 50.8 mm Span)	6890	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	91	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 6.35 mm)	241	°C	ASTM D648
Melting Temperature	249	°C	
Flammability	Nominal Value		Test Method
Flame Rating (1.52 mm)	HB		UL 94
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	249 to 282	°C	
Middle Temperature	260 to 288	°C	
Front Temperature	271 to 304	°C	
Nozzle Temperature	271 to 304	°C	

Processing (Melt) Temp	271 to 304	°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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