

ESPREE™ ZYYST

Polyamide 66
SABIC Innovative Plastics

Message:

ESPREE™ ZYYST is a polyamide 66 (nylon 66) product. It can be processed by injection molding and is available in North America.

Features include:

- flame retardant/rated flame
- Impact modification
- Good toughness
- Impact resistance

General Information			
UL YellowCard	E121562-101231692		
Additive	Impact modifier		
Features	Ultra-high impact resistance		
	Impact modification		
	Good toughness		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.5 - 2.0	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Ultimate, 3.18 mm)	48.3	MPa	ASTM D638
Flexural Modulus ² (3.18 mm)	1720	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	1000	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.18 mm)	65.6	°C	ASTM D648
Melting Temperature	249	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.838 mm, NC	HB		UL 94
1.65 mm, RD	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 - 80	%	
Rear Temperature	249 - 282	°C	

Middle Temperature	260 - 288	°C
Front Temperature	271 - 304	°C
Nozzle Temperature	271 - 304	°C
Processing (Melt) Temp	271 - 304	°C
Mold Temperature	65.6 - 110	°C
Back Pressure	0.172 - 1.03	MPa
Screw Speed	50 - 150	rpm

NOTE

1. 51 mm/min
2. 1.3 mm/min

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