

Starflam PA12 Z31 (EXP)

Polyamide 12
Eurostar Engineering Plastics

Message:

PA12 Z31 is an Unfilled Halogen Free Flame Retardant, Polyamide 12, Injection Molding Resin (developmental)

General Information			
Additive	Flame retardancy		
Features	Halogen-free		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.05	g/cm ³	ISO 1183
Molding Shrinkage (3.00 mm)	1.0 - 1.8	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Yield)	45.0	MPa	ISO 527-2
Tensile Strain (Break)	10	%	ISO 527-2
Flexural Modulus	1600	MPa	ISO 178
Flexural Stress	50.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ISO 180/1A
-30°C	3.3	kJ/m ²	ISO 180/1A
23°C	3.5	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength			ISO 180/1U
-30°C	36	kJ/m ²	ISO 180/1U
23°C	36	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ¹ (0.45 MPa, Unannealed, 100 mm Span)	120	°C	ISO 75-2/Be
Melting Temperature (DSC)	178	°C	ISO 3146
Flammability	Nominal Value	Unit	Test Method
Glow Wire Flammability Index (1.6 mm)	960	°C	IEC 60695-2-12
Oxygen Index	32	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	80	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.20	%	
Rear Temperature	200 - 220	°C	
Middle Temperature	200 - 220	°C	

Front Temperature	200 - 220	°C
Processing (Melt) Temp	200 - 220	°C
Mold Temperature	50 - 90	°C

NOTE

1. 120x10x4 mm

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