

Starflam PZ0052E

Polyamide 6
Eurostar Engineering Plastics

Message:

PZ0052E is a Halogen Free and Red Phosphorous Free, Flame Retardant, Glass Reinforced Polyamide 6 Molding Resin (known as PF1005Z222 or PA625GFUZ22)

General Information			
UL YellowCard	E340012-100759124		
Filler / Reinforcement	Glass Fiber		
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
	Low (to None) Phosphorus Content		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.39	g/cm ³	ASTM D792
--	1.38	g/cm ³	ISO 1183
Molding Shrinkage - Flow (24 hr)	0.40 to 0.60	%	ISO 294-4
Water Absorption (24 hr, 50% RH)	1.1	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	7440	MPa	ASTM D638
--	6100	MPa	ISO 527-2/1
Tensile Strength			
Break	103	MPa	ASTM D638
Break	82.0	MPa	ISO 527-2
Tensile Elongation			
Break	2.3	%	ASTM D638
Break	2.5	%	ISO 527-2
Flexural Modulus			
--	7100	MPa	ASTM D790
--	5200	MPa	ISO 178
Flexural Strength			
--	144	MPa	ASTM D790
--	120	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			
23°C	53	J/m	ASTM D256
23°C ²	3.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	470	J/m	ASTM D4812
23°C ³	25	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	8.00	J	ASTM D3763
--	8.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	215	°C	ASTM D648
1.8 MPa, Unannealed, 3.20 mm	204	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ⁴	137	°C	ISO 75-2/Af
CLTE - Flow (-40 to 40°C)	3.2E-5	cm/cm/°C	ASTM E831
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm, Tested by E2P)	V-2		UL 94
Oxygen Index	> 20	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.20	%	
Rear Temperature	240 to 250	°C	
Middle Temperature	250 to 260	°C	
Front Temperature	250 to 270	°C	
Processing (Melt) Temp	250 to 270	°C	
Mold Temperature	50.0 to 90.0	°C	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		
4.	80*10*4		

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