Starflam® PF0057E

PA6-GF25 Ascend

Product Texts

Starflam PF0057E is a 25% glass fiber reinforced, flame retardant PA6 for injection molded applications. The material is halogen free and red phosphorus free.

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**10100 / 6000**	MPa	ISO 527
[C] Stress at break	**134 / 79**	MPa	ISO 527
[C] Strain at break	**2.4 / 4.5**	%	ISO 527
[C] Charpy impact strength, +23°C	**61 / 66**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**60 / 57**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**11 / 15**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**9.8 / 9**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**221 / ***	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**205 / ***	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**219 / ***	°C	ISO 75-1/-2
[C] Burning Behav. at 1.5 mm nom. thickn.	**V-0 / ***	class	IEC 60695-11-10

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Electric strength	**31 / 27**	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	**1.3 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**1.9 / ***	%	Sim. to ISO 62
[C] Density	**1390 / -**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Delivery form
Pellets

Additives
Release agent

Special Characteristics
Flame retardant, Halogen-free, Phosphorus-free, Heat stabilized or stable to heat

Regional Availability
North America, Europe