

Product Texts

Starflam PW0042E is a mineral filled, flame retardant PA6 for injection molded applications. The material is halogen free and red phosphorus free.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	1.1 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.0 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	5200 / 2200	MPa	ISO 527
^[C] Stress at break	73 / 33	MPa	ISO 527
^[C] Strain at break	2.8 / 12	%	ISO 527
^[C] Charpy impact strength, +23°C	38 / 76	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	36 / 31	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	3.1 / 4.1	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	2.6 / 2.2	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	220 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	84 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	188 / *	°C	ISO 75-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Electric strength	25 / 21	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	1.4 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.7 / *	%	Sim. to ISO 62
^[C] Density	1340 / -	kg/m ³	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