

Product Texts

Starflam AFR450X2 is a 25% glass filled, red phosphorous flame retardant PA66 for injection molded applications.

Processing/Physical Characteristics

dry / cond

Unit

Test Standard

ISO Data

^[C] Molding shrinkage, parallel	0.5 / *	%	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	8600 / 5600	MPa	ISO 527
^[C] Stress at break	139 / 90	MPa	ISO 527
^[C] Strain at break	2.6 / 4.8	%	ISO 527
^[C] Charpy impact strength, +23°C	67 / 72	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	60 / 58	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	11 / 14	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	7.8 / 7.7	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties

dry / cond

Unit

Test Standard

ISO Data

^[C] Melting temperature, 10°C/min	261 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	239 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	258 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	28 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	90 / *	E-6/K	ISO 11359-1/-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] Volume resistivity	1E13 / -	Ohm*m	IEC 62631-3-1
^[C] Electric strength	24 / 22	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties

dry / cond

Unit

Test Standard

^[C] Water absorption	1 / *	%	Sim. to ISO 62
^[C] Humidity absorption	1.7 / *	%	Sim. to ISO 62
^[C] Density	1380 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant, Heat stabilized or stable to heat

Delivery form

Pellets

Regional Availability

North America, Europe

Additives

Release agent