



PPA compound, 30% glass fiber reinforced, heat stabilized, halogens free. UL listed V0@0,4mm. Specifically designed for electrical and electronic applications that require high thermal, peak and continuous resistance together with compliance with the most stringent safety requirements. Suitable for components that need to withstand the reflow soldering process (SMT).

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Product information			
Part Marking Code	>PPA-GF30 FR(4	0)<	ISO 11469
Rheological properties			
Moulding shrinkage range, parallel Moulding shrinkage range, normal	0.1 - 0.5 0.5 - 0.9		ISO 294-4, 2577 ISO 294-4, 2577
Typical mechanical properties			
Tensile Modulus Stress at break, 5mm/min Strain at break, 5mm/min Charpy impact strength, 23°C Charpy impact strength, -30°C Charpy notched impact strength, 23°C Charpy notched impact strength, -30°C Thermal properties Melting temperature, 10°C/min	20 19 3.57 3.33	psi % ftlb/in² ftlb/in² ftlb/in² ftlb/in²	ISO 527-1/-2 ISO 527-1/-2 ISO 527-1/-2 ISO 179/1eU ISO 179/1eU ISO 179/1eA ISO 179/1eA
Temp. of deflection under load, 1.8 MPa	563	°F	ISO 75-1/-2
Flammability			
Burning Behav. at 1.5mm nom. thickn. Burning Behav. at thickness h Thickness tested UL recognition Glow Wire Flammability Index, 0.75mm Glow Wire Flammability Index, 3mm Glow Wire Ignition Temperature, 0.75mm Glow Wire Ignition Temperature, 3mm FMVSS Class		°F °F	UL 94 UL 94 UL 94 UL 94 IEC 60695-2-12 IEC 60695-2-13 IEC 60695-2-13 ISO 3795 (FMVSS 302)
Electrical properties			
Comparative tracking index Comparative tracking index	Group I PLC 0	PLC	IEC 60112 UL 746A

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FRIANYL® XT4 GF30 V0I BK 9005/D

Other properties

Humidity absorption, 2mm0.9 %Sim. to ISO 62Water absorption, 2mm3 %Sim. to ISO 62Density12 lb/galISO 1183

Characteristics

Additives

Flame retardant, Non-halogenated/Red phosphorous free flame retardant

Additional information

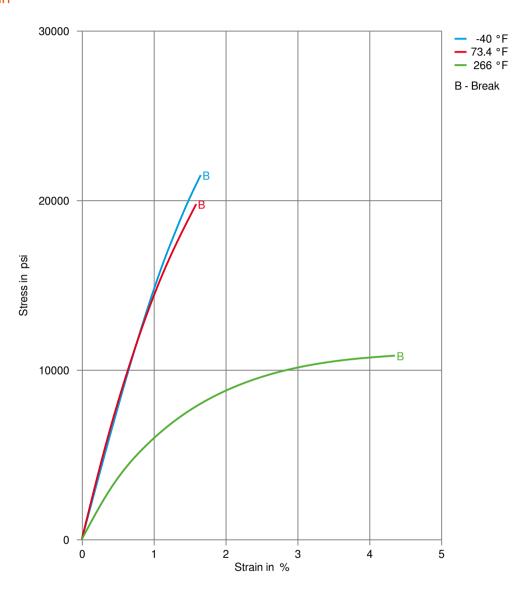
Injection molding

The following conditions apply to the normal injection molding process of FRIANYL XT4. Machine temperatures: barrel 310-325°C, nozzle and hot runners 325-340°C. Mold temperatures: 100°C. Back pressure: typically, <5 bar (hydraulic pressure). Temperatures exceeding 340°C and long residence time could lead to degradation and brittleness of the material. In case of gas generation in the melt, please verify moisture content and processing temperatures. Usage of regrind is possible depending on the molded part characteristics. For further details, please contact our technical support team.





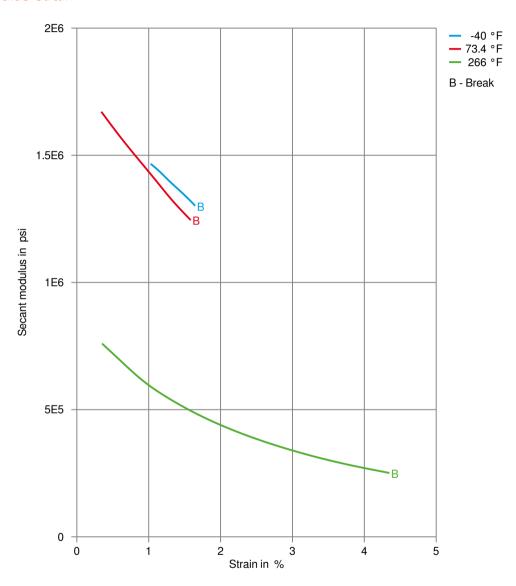
Stress-strain







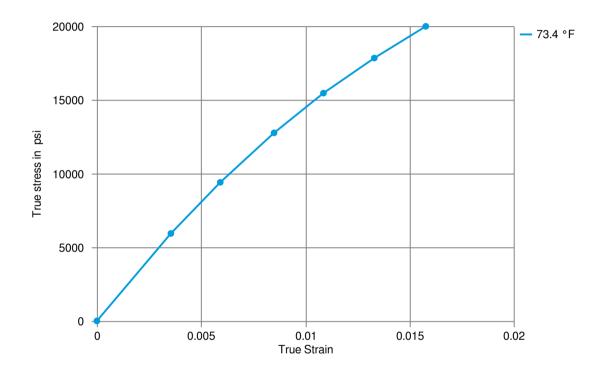
Secant modulus-strain







True stress-strain



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Processing Texts

Injection molding

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Injection molding Preprocessing

XT4 compound is supplied in moisture-proof packaging. The maximum moisture content allowed for the process of injection molding is 0.10%, but to get the maximum performance and reduce possible degradation phenomena is recommended molding with a moisture content < 0.08%. The drying time depends on the initial moisture content and the drying conditions used. Typically 4-6h hours at 110°C with dry air (dew point of <-30°C) are sufficient for the material stored in unopened packs or with moisture content < 0.20-0.25%.

Injection molding Postprocessing

Parts made by FRIANYL XT4 compound, do not change significantly their performance depending on the moisture uptake. Normally, a conditioning cycle is not necessary. After molding, with favorable environmental conditions, a piece can absorb moisture up to 0,1-0,3% in 24h and reach the equilibrium during its lifetime. The post-treatment of the parts may include annealing at 100-110°C in the oven, up to four hours. This treatment is useful to relax any internal stress.