

FRIANYL® DEV XT6 GF30 V0I BK 9005 - PPA (EXPERIMENTAL)
Description

PPA compound, 30% Glass Fiber Reinforced, Flame Retardant, Non-Halogenated, High Performance Polyamide

Physical properties	Value	Unit	Test Standard
Density	89.9	lb/ft³	ISO 1183
Water absorption, 23°C-sat	3.5	%	Sim. to ISO 62
Humidity absorption, 23°C/50%RH	1.3	%	ISO 62

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	1.52E6/1.54E6	psi	ISO 527-1, -2
Tensile stress at break, 5mm/min	21800/19400	psi	ISO 527-1, -2
Tensile strain at break, 5mm/min	2.2/2.3	%	ISO 527-1, -2
Flexural modulus, 23°C	1.6E6/1.56E6	psi	ISO 178
Flexural strength, 23°C	33400/31000	psi	ISO 178
Charpy impact strength, 23°C	21.4/-	ft-lb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	3.81/3.71	ft-lb/in²	ISO 179/1eA

Thermal properties	Value	Unit	Test Standard
DTUL at 1.8 MPa	532	°F	ISO 75-1, -2
Flammability @0.8mm nom. thickn.	V-0	class	UL 94
Flammability @0.4mm nom. thickn.	V-0	class	UL 94

Electrical properties	Value	Unit	Test Standard
Volume resistivity, 23°C	>1E13/-	Ohm*m	IEC 62631-3-1
Surface resistivity, 23°C	>1E15/-	Ohm	IEC 62631-3-2
Electric strength, 23°C (AC)	838/-	kV/in	IEC 60243-1
CTI 50 drops	600	V	IEC 60112

Typical injection molding processing conditions

Pre Drying	Value	Unit
Necessary low maximum residual moisture content	0.1	%
Drying time	6 - 8	h
Drying temperature	212	°F

Temperature	Value	Unit
Melt temperature	608 - 617	°F
Mold temperature	194 - 266	°F



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Characteristics

Special Characteristics	Flame retardant
Product Categories	Glass reinforced
Processing	Injection molding
Delivery Form	Granules

