

Product Texts

Starflam 315J NT0725 (formerly Vydyne® ECO315J NT0725) is a non-halogenated, unreinforced, flame-retardant PA66/6 co-polymer compound designed with high ductility (20% elongation), high comparative tracking index (CTI), and low corrosion for improved electrical contact performance. It is stabilized to provide heat stability up to 125°C for 1,000 hours in a dry environment. It exhibits excellent toughness and ductility, allowing increased flexibility in product design needed for living hinges and snap fits. 315J NT0725 provides enhanced flow and is lubricated for machine feed and easy mold release.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	1.2 / *	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.4 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	3200 / 1200	MPa	ISO 527
^[C] Yield stress	75 / 42	MPa	ISO 527
^[C] Yield strain	3.5 / 23	%	ISO 527
^[C] Charpy impact strength, +23°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	N / N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	5 / 15	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	4 / 4	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	244 / *	°C	ISO 11357-1/-3
^[C] Temp. of deflection under load, 1.80 MPa	65 / *	°C	ISO 75-1/-2
^[C] Temp. of deflection under load, 0.45 MPa	225 / *	°C	ISO 75-1/-2
^[C] Coeff. of linear therm. expansion, parallel	110 / *	E-6/K	ISO 11359-1/-2
^[C] Coeff. of linear therm. expansion, normal	110 / *	E-6/K	ISO 11359-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-
^[C] Burning Behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.4 / *	mm	-
Yellow Card available	yes / *	-	-
^[C] Oxygen index	29 / *	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
^[C] Volume resistivity	1E9 / -	Ohm*m	IEC 62631-3-1
^[C] Electric strength	13 / -	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600 / -	-	IEC 60112

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
^[C] Water absorption	0.8 / *	%	Sim. to ISO 62
^[C] Humidity absorption	2.3 / *	%	Sim. to ISO 62
^[C] Density	1160 / -	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Special Characteristics

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

Delivery form

Pellets, Natural Color

Features

Ductile, Copolymer

Additives

Lubricants

Regional Availability

North America, Europe, Asia Pacific