



Starflam 315J BK0707 (formerly Vydyne® ECO315J BK0707) is a non-halogenated, unfilled, flame-retardant PA66/6 copolymer with excellent toughness and ductility. 315J BK0707 is also lubricated for machine feed and easy mold release.

Additive	• Flame Retarding Agent	• Hea	Heat Stabilizer Lu		ubricant	
Features	Crack Resistant	• Duo	ctile	Flame Retardant		
	 Good Mold Release 	 Good Toughness 		• Halogen Content, None		
	 High Elongation 	• Lov	v Density	• Lubric	ated	
	 Organic Heat Stabilized 					
UL File Number	• E70062					
Appearance	• Black					
Forms	• Pellets					
Processing Method	 Injection Molding 					
Physical		dry	cond.	Unit	Test Standa	
Density		1.16	-	g/cm³	ISO 1183	
Molding Shrinkage					ISO 294-4	
Across Flow: 23°C, 2.00 i	mm	1.4	*	%		
Flow: 23°C, 2.00 mm		1.2	*	%		
Water Absorption					ISO 62	
23°C, 24 hr		8.0	*	%		
Equilibrium, 23°C, 50% R	Н	2.3	*	%		
Mechanical		dry	cond.	Unit	Test Standa	
Tensile Modulus (23°C)		3250	1200	MPa	ISO 527-2	
Tensile Stress (Yield, 23°C)		75	42	MPa	ISO 527-2	
Tensile Strain (Yield, 23°C)		3.5	23	%	ISO 527-2	
Tensile Strain (Break, 23°C)		22	140	%	ISO 527-2	
Flexural Modulus (23°C)		3200	1560	MPa	ISO 178	
Flexural Strength (23°C)		92	45	MPa	ISO 178	
Poisson's Ratio (23°C)		0.4			ISO 527-2	
Impact		dry	cond.	Unit	Test Standa	
Charpy Notched Impact Strer	ngth				ISO 179/1e	
+23°C		5.4	-	kJ/m²		

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+23°C -30°C	N N	-	kJ/m² kJ/m²	
Notched Izod Impact Strength, +23°C	6	-	kJ/m²	ISO 180/1A
Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	65	-	°C	
0.45 MPa, Unannealed	225	-	°C	
Melting Temperature	244	*	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow: 23 to 55°C, 2.00 mm	110	*	E-6/K	
Transverse: 23 to 55°C, 2.00 mm	110	*	E-6/K	
RTI Elec				UL 746
0.400 mm	130		°C	
0.750 mm	130		°C	
1.50 mm	130		°C	
3.00 mm	130		°C	
RTI Imp				UL 746
0.400 mm	65		°C	
0.750 mm	65		°C	
1.50mm	85		°C	
3.00 mm	85		°C	
RTI Str				UL 746
0.400 mm	100		°C	
0.750 mm	100		°C	
1.50 mm	100		°C	
3.00 mm	110		°C	
Electrical	dry	cond.	Unit	Test Standard
Volume Resistivity (1.00 mm)	1E9	-	Ohm*m	IEC 60093
Dielectric Strength (1.00 mm)	13	-	kV/mm	IEC 60243
Arc Resistance (3.00 mm)	5			ASTM D 495
Comparative Tracking Index (3.00 mm)	600		V	IEC 60112
High Amp Arc Ignition (HAI)				UL 746
0.400 mm	PLC 0			
0.750 mm	PLC 0			
1.50 mm	PLC 0			
3.00 mm	PLC 0			
High Voltage Arc Tracking Rate (HVTR), 3.00 mm	PLC 1			UL 746

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Hot-wire Ignition (HWI)		UL 746
0.400 mm	PLC 4	
0.750 mm	PLC 4	
1.50 mm	PLC 4	
3.00 mm	PLC 3	

Flammability	dry	cond.	Unit	Test Standard
Flammability				UL 94
0.400 mm	V-0			
0.750 mm	V-0			
1.50 mm	V-0			
3.00 mm	V-0			
Glow Wire Flammability Index				IEC 60695-2-12
0.400 mm	960		°C	
0.750 mm	960		°C	
1.50 mm	960		°C	
3.00 mm	960		°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.400 mm	875		°C	
0.750 mm	875		°C	
1.50 mm	775		°C	
3.00 mm	725		°C	
Oxygen index	29	*	%	EN ISO 4589-2

Injection	Value	Unit	
Drying Temperature	80	°C	
Drying Time	4	h	
Suggested Max Regrind	50	%	
Rear Temperature	240 - 270	°C	
Middle Temperature	240 - 270	°C	
Front Temperature	240 - 270	°C	
Nozzle temperature	240 - 270	°C	
Processing (Melt) Temperature	250 - 270	°C	
Mold Temperature	65 - 95	°C	



North America +1 888 927 2363 **Europe** +32 10 608 600

Asia

+86 21 2315 0888

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