



Model U4820L (r1)
File Number: E333734



COMPANY

INV Nylon Polymers Americas, LLC
4111 E 37th St N
Wichita, KS 67220 United States

MODEL INFO

U4820L (r1)
Polyamide 66 (PA66), lubricated, furnished as pellets
(r1) – Virgin and regrind up to 50% by weight inclusive have the same basic characteristics

FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		ANSI/UL 94
0.40 mm, Color: NC, BK	V-2	
0.71 mm, Color: NC, BK	V-2	
1.5 mm, Color: ALL	V-2	
3.0 mm, Color: ALL	V-2	
ISO/IEC FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		IEC 60695-11-10
0.40 mm, Color: NC, BK	V-2	
0.71 mm, Color: NC, BK	V-2	
1.5 mm, Color: ALL	V-2	
3.0 mm, Color: ALL	V-2	
Glow Wire Ignition Temperature (GWIT)		IEC 60695-2-13
0.71 mm	960 °C	
1.5 mm	900 °C	
3.0 mm	750 °C	

Glow Wire Flammability Index (GWFI)		IEC 60695-2-12	
0.71 mm	960 °C		
1.5 mm	960 °C		
3.0 mm	960 °C		
ELECTRICAL PROPERTIES		VALUE	TEST METHOD
Hot-wire Ignition (HWI)			UL 746A
0.40 mm	PLC 4		
0.71 mm	PLC 4		
1.5 mm	PLC 3		
3.0 mm	PLC 2		
High Amp Arc Ignition (HAI)			UL 746A
0.40 mm	PLC 1		
0.71 mm	PLC 0		
1.5 mm	PLC 0		
3.0 mm	PLC 0		
Comparative Tracking Index (CTI)		PLC 0	UL 746A
Dielectric Strength		18 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)		PLC 0	
Volume Resistivity		1.0E+10 ohms-cm	ASTM D257/IEC 60093
High Voltage, Low Current Arc Resistance		PLC 5	
Comparative Tracking Index (CTI) (Material Group: I)		CTI600 V	IEC 60112
THERMAL PROPERTIES		VALUE	TEST METHOD
Relative Thermal Index - Electrical Strength			UL 746B
0.40 mm	130 °C		
0.71 mm	130 °C		
1.5 mm	130 °C		
3.0 mm	130 °C		
Relative Thermal Index - Mechanical Impact			UL 746B



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0.40 mm	65 °C	
0.71 mm	75 °C	
1.5 mm	75 °C	
3.0 mm	75 °C	
Relative Thermal Index - Mechanical Strength		UL 746B
0.40 mm	75 °C	
0.71 mm	85 °C	
1.5 mm	85 °C	
3.0 mm	85 °C	
Ball Pressure Temperature	240 °C	
PHYSICAL PROPERTIES		
	VALUE	TEST METHOD
Dimensional Change	0.13 %	ASTM D1042/ISO 2796
IMPACT PROPERTIES		
	VALUE	TEST METHOD
Izod Impact	4.9 kJ/m ²	ISO 180
Charpy Impact	5.9 kJ/m ²	ISO 179-1

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