

80N, 80NA, 80NR, 80NY, 808N, 80NR-S, 80NH,
80NHX, 80NE, 80EB, 80HD

File Number: E48285

Yellow Card®


ALSO CERTIFIED TO
IEC REQUIREMENTS

COMPANY

ASAHI KASEI CORP
Hibiya Mitsui Tower
1-1-2 Yurakucho
Chiyoda-ku, Tokyo 100-0006 Japan

MODEL INFO

Delpet: 80N, 80NA, 80NR, 80NY, 808N, 80NR-S, 80NH, 80NHX, 80NE, 80EB, 80HD
Polymethyl Methacrylate (PMMA), furnished as pellets

FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		ANSI/UL 94
1.0 mm, Color: NC	HB	
1.5 mm, Color: ALL	HB	
3.0 mm, Color: ALL	HB	
6.0 mm, Color: ALL	HB	

ISO/IEC FLAMMABILITY PROPERTIES	VALUE	TEST METHOD
Flammability		IEC 60695-11-10
1.0 mm, Color: NC	HB75	
1.5 mm, Color: ALL	HB75	
3.0 mm, Color: ALL	HB40	

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ELECTRICAL PROPERTIES	VALUE	TEST METHOD
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Hot-wire Ignition (HWI)	UL 746A	
1.5 mm	PLC 3	
3.0 mm	PLC 3	
6.0 mm	PLC 2	
High Amp Arc Ignition (HAI)	UL 746A	
1.5 mm	PLC 0	
3.0 mm	PLC 0	
6.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 0	UL 746A
Dielectric Strength	29 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 0	
Volume Resistivity	1.0E+15 ohms-cm	ASTM D257/IEC 60093
High Voltage, Low Current Arc Resistance	PLC 5	

THERMAL PROPERTIES	VALUE	TEST METHOD
Relative Thermal Index - Electrical Strength	UL 746B	
1.0 mm	50 °C	
1.5 mm	50 °C	
3.0 mm	50 °C	
6.0 mm	50 °C	
Relative Thermal Index - Mechanical Impact	UL 746B	
1.0 mm	50 °C	
1.5 mm	50 °C	
3.0 mm	50 °C	
6.0 mm	50 °C	
Relative Thermal Index - Mechanical Strength	UL 746B	

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1.0 mm	50 °C	
1.5 mm	50 °C	
3.0 mm	50 °C	
6.0 mm	50 °C	

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PHYSICAL PROPERTIES	VALUE	TEST METHOD
Dimensional Change	0.17 %	ASTM D1042/ISO 2796

Report Date: 1975-08-13

Revision Date: 2020-12-21

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