



Component - Plastics

File Number: E45034

POLYPLASTICS CO LTD

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MINATO-KU, Tokyo 108-8280 Japan



Duracon: M90-57(r5)

Polyoxymethylene (POM), pellets

(r5) - Virgin and Re grind from 1 to 100% by weight inclusive have the same basic material characteristics except for the RTI's are 50C for all three properties for Re grind from 26 - 100%

Flammability	Value	Test Method
Flame Rating		UL 94
0.75 mm, ALL	HB	
1.5 mm, ALL	HB	
3.0 mm, ALL	HB	
Flammability Classification		IEC 60695-11-10, -20
3.0 mm, ALL	HB40	
0.75 mm, ALL	HB75	
1.5 mm, ALL	HB75	
Electrical	Value	Test Method
Hot-wire Ignition (HWI)		UL 746A
0.75 mm	PLC 4	
1.5 mm	PLC 4	
3.0 mm	PLC 3	
High Amp Arc Ignition (HAI)		UL 746A
0.75 mm	PLC 0	
1.5 mm	PLC 0	
3.0 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	UL 746A
Volume Resistivity	1.0E+15 ohms-cm	ASTM D257
Volume Resistivity	1.0E+15 ohms-cm	IEC 60093
Arc Resistance	PLC 5	ASTM D495
Thermal	Value	Test Method
RTI Elec		UL 746B
0.75 mm	110 °C	
1.5 mm	110 °C	
3.0 mm	110 °C	
RTI Imp		UL 746B
0.75 mm	95.0 °C	
1.5 mm	95.0 °C	
3.0 mm	95.0 °C	
RTI Str		UL 746B
0.75 mm	100 °C	
1.5 mm	100 °C	
3.0 mm	100 °C	
Physical	Value	Test Method
Dimensional Change	0.0 %	ASTM D1042
Dimensional Change	0.0 %	ISO 2796



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