



Component - Plastics

File Number: E45034

POLYPLASTICS CO LTD

18-1 KONAN



DURACON: M25(i)(r5), M90(i)(r5), M140(i)(r5), M270(i)(r5), M450(i)(r5)

Acetal Polyoxymethylene (POM), pellets

- (i) - May or may not be followed by suffix -31, -34, -42, -44, -84 or S which indicates lubricity and stability except M450(i). When M450(i) may or may not be followed by suffix -42, -44, -84 or S which indicates lubricity or stability.
- (r5) - Virgin and Regrind 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 Regrind 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 746
0.75 mm	PLC 4	
1.5 mm	PLC 4	
3.0 mm	PLC 3	
High Amp Arc Ignition (HAI)		UL 746
0.75 mm	PLC 0	
1.5 mm	PLC 0	
3.0 mm	PLC 0	
Comparative Tracking Index (CTI)	PLC 0	UL 746
Dielectric Strength	29 kV/mm	ASTM D149
High Voltage Arc Tracking Rate (HVTR)	PLC 0	UL 746
Volume Resistivity	1.0E+15 ohms·cm	ASTM D257
Volume Resistivity	1.0E+15 ohms·cm	IEC 60093
Arc Resistance	PLC 5	ASTM D495
Electric Strength	29 kV/mm	IEC 60243-1
Thermal	Value	Test Method
RTI Elec		UL 746
0.75 mm	110 °C	
1.5 mm	110 °C	
3.0 mm	110 °C	
RTI Imp		UL 746
0.75 mm	95.0 °C	
1.5 mm	95.0 °C	
3.0 mm	95.0 °C	
RTI Str		UL 746
0.75 mm	100 °C	
1.5 mm	100 °C	
3.0 mm	100 °C	

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Physical	Value	Test Method
Dimensional Stability	0.0 %	ASTM D1042
Dimensional Stability	0.0 %	ISO 2796

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ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 large-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of product devices and appliances, where the acceptability of the combination is determined by UL.

