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Component - Plastics

Guide Information

The information presented on the UL Prospector datasheet was acquired by UL Prospector from the producer of the material. UL Prospector makes substantial efforts to assure the accuracy of this data. However, UL Prospector assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

POLYPLASTICS CO LTD

18-1 KONAN, 2-CHOME, MINATO-KU TOKYO 108-8280 JP

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

Acetal Polyoxymethylene (POM) "Duracon", furnished as pellets

	<u>Min. Thk</u>	<u>Flame</u>			<u>RTI</u>	<u>RTI</u>	<u>RTI</u>
<u>Color</u>	<u>(mm)</u>	Class	<u>HWI</u>	<u>HAI</u>	Elec	<u>lmp</u>	Str
ALL	0.75	HB	4	0	110	95	100
	1.5	HB	4	0	110	95	100
	3.0	HB	3	0	110	95	100

Comparative Tracking Index (CTI): 0

Dielectric Strength (kV/mm): 29

High-Voltage Arc Tracking Rate (HVTR): 0

Dimensional Stability (%): 0.0

Inclined Plane Tracking (IPT) kV: -

Volume Resistivity (10^x ohm-cm): 15

Surface Resistivity (10^x ohms/square): -

High Volt, Low Current Arc Resis (D495): 5

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

Report Date: 1984-06-05 Last Revised: 2003-10-24

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IEC and ISO Test Methods					
Test Name	Test Method	Units	Thk (mm)	Value	
Flammability	IEC 60695-11-10	Class (color)	0.75	HB, HB75 (ALL)	
			1.5	HB, HB75 (ALL)	
			3.0	HB, HB40 (ALL)	
Glow-Wire Flammability (GWFI)	IEC 60695-2-12	°C	-	-	
Glow-Wire Ignition (GWIT)	IEC 60695-2-13	°C	-	-	
IEC Comparative Tracking Index	IEC 60112	Volts (Max)	-	-	
IEC Ball Pressure	IEC 60695-10-2	°C	-	-	
ISO Heat Deflection (1.80 MPa)	ISO 75-2	°C	-	-	
ISO Tensile Strength	ISO 527-2	MPa	-	-	
ISO Flexural Strength	ISO 178	MPa	-	-	
ISO Tensile Impact	ISO 8256	kJ/m ²	-	-	
ISO Izod Impact	ISO 180	kJ/m ²	-	-	
ISO Charpy Impact	ISO 179-1	kJ/m ²	-	-	

⁽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%