

## Polyplastics Duracon® CH-10 Acetal Co-polymer (POM), Conductive, CF reinforced, Wear resistance

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Carbon Fiber Filled

### Material Notes:

DURACON® is a crystalline thermoplastic acetal copolymer. The primary raw material trioxane, a trimer of formaldehyde. The thermoplastic adopts a copolymer structure in which polyoxymethylene (-C-O) and carbon-carbon (-C-C- bond) comonomer groups are incorporated into its main chain. Therefore the copolymer has superior chemical and thermal stability, compared with acetal homopolymer. Acetal co-polymer is well-balanced in terms of mechanical, chemical and thermal properties, and its superior moldability allows it to be widely employed in various industrial fields. Information provided by PolyPlastics.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polyplastics-Duracon-CH-10-Acetal-Co-polymer-POM-Conductive-CF-reinforced-Wear-resistance.php](http://www.lookpolymers.com/polymer_Polyplastics-Duracon-CH-10-Acetal-Co-polymer-POM-Conductive-CF-reinforced-Wear-resistance.php)

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in <sup>3</sup>	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	116 MPa	16800 psi	ISO 527-1, 2
Elongation at Break	2.0 %	2.0 %	ISO 527-1, 2
Tensile Modulus	8.80 GPa	1280 ksi	ISO 527-1, 2
Flexural Strength	170 MPa	24700 psi	ISO 178
Flexural Modulus	7.50 GPa	1090 ksi	ISO 178
Charpy Impact, Notched	0.300 J/cm <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 µm/m-°C	11.1 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
CTE, linear, Transverse to Flow	100 µm/m-°C	55.6 µin/in-°F	ISO 11359-2
	@Temperature 23.0 - 55.0 °C	@Temperature 73.4 - 131 °F	
Deflection Temperature at 1.8 MPa (264 psi)	163 °C	325 °F	ISO 75-1, 2
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Surface Resistance	8000 ohm	8000 ohm	IEC 60093

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China