

Acetal Copolymer

DURACON®

M90HP

(High Rigiditygrade)

Polyplastics

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NOTES TO USERS

- All property values shown in this brochure are the typical values obtained under varying conditions prescribed by applicable standards and test methods.
- This brochure has been prepared based on our own experiences and laboratory test data, and therefore all data shown here are not always applicable to parts used under different conditions. We do not guarantee that these data are directly applicable to the application conditions of users and we ask each user to make his own decision on the application.
- It is the users' responsibility to investigate patent rights, service life and potentiality of applications introduced in this brochure. Materials we supply are not intended for the implant applications in the medical and dental fields, and therefore are not recommended for such uses.

- For all works done properly, it is advised to refer to the appropriate **"Technical Catalog"** for specific material processing.
- For safe handling of materials we supply, it is advised to refer to the Material Safety Data Sheet **"MSDS"** of the proper material.
- This brochure is edited based on reference literatures, information and data currently available to us. So the contents of this brochure are subject to change without notice due to new data.
- Please contact our office for any questions about products we supply, descriptive literatures or any description in this brochure.

1. General physical properties of DURACON M90HP

Table 1-1 General properties (ISO)

Item	Unit	Testing Method	High Rigidity
			M90HP
Density	g/cm ³	ISO 1183	1.41
Tensile strength	MPa	ISO 527-1,2	66
Strain at break	%	ISO 527-1,2	30
Tensile modulus	MPa	ISO 527-1,2	-
Flexural strength	MPa	ISO 178	89
Flexural modulus	MPa	ISO 178	2540
Charpy impact strength(notched)	kJ/m ²	ISO 179/1eA	7
Temperature of deflection under load(1.8MPa)	°C	ISO 75-1,2	98
Coefficient of linear thermal expansion(23 55 low direction)	x10 ⁻⁵ /°C	ISO 11359-2	-
Coefficient of linear thermal expansion(23 55 Transverse direction)	x10 ⁻⁵ /°C	ISO 11359-2	-
Dielectric breakdown strength(Thickness 3mm)	kV/mm	IEC 60243-1	-
Volume resistivity	Ohm·cm	IEC 60093	-
Surface resistivity	Ohm	IEC 60093	-
Flammability		UL94	HB

All figures in the table are the typical values of the material and not the minimum values of the material specifications.

*1)For qualified values of UL (Underwriters Laboratories Inc.) refer to the yellow card (File No.E45034) issued by UL.

*2)This grades come under Item 16 of Annex 1 of the Export Trade Control Order on the basis of the Foreign Exchange and Foreign Trade Law of Japan.



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