

DURACON® POM “PM Series”

Medical Plastics Requirements

DURACON® POM PM Series will meet the critical requirements of medical device manufacturers

- ISO10993 & USP Class VI biocompatibility/cytotoxicity
- FDA Drug Master File (DMF) & Device Master File (MAF)
- EU 10/2011 & FDA food contact 21 CFR 177.2470
- Conformity to VDI guideline “VDI 2017 Medical-grade Plastics”
- Follows change control and GMP principles
- Full traceability of processes and products
- Uniform quality and global supply from the world’s leading POM manufacturer

Balanced Material Properties

PM Series hold balanced physical properties and moldability

Item	Test Method	Unit	PM09S01N Standard	PM27S01N High Flow
MFR (190°C, 2.16kg)	ISO 1133	g/10 min	9	27
Density	ISO 1183	g/cm ³	1.41	1.41
Tensile Strength	ISO 527-1,2	MPa	66	66
Tensile Modulus	ISO 527-1,2	MPa	2,700	2,900
Flexural Strength	ISO 178	MPa	88	91
Flexural Modulus	ISO 178	MPa	2,500	2,600
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	9	7

Sterilization Compatibility

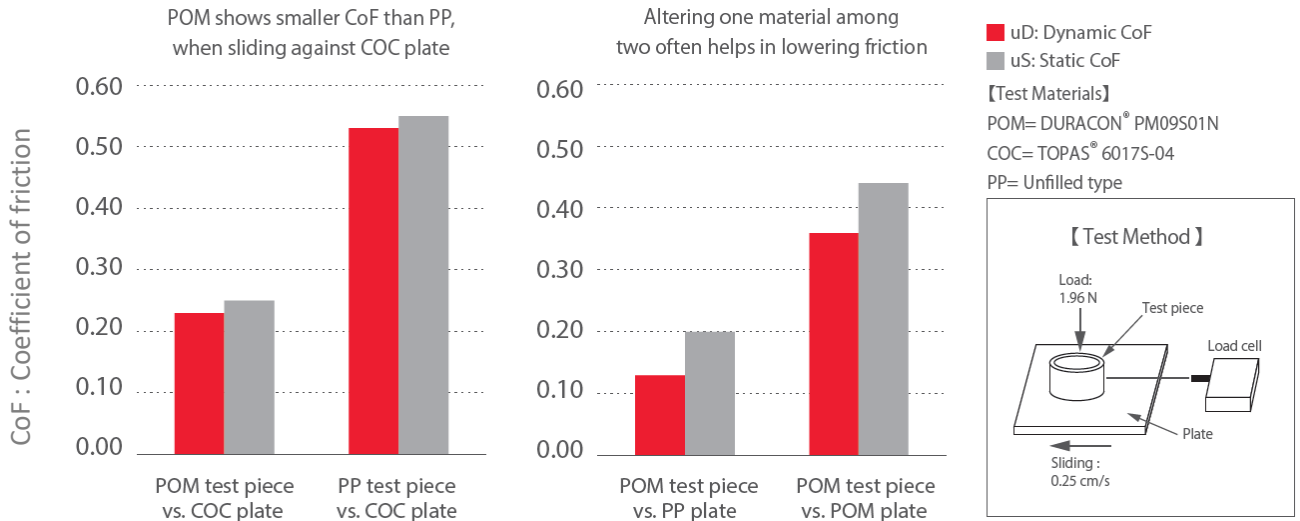
PM Series tolerate hot steam & EOG sterilization conditions

	Hot Steam		EOG	Gamma	Electron
	120°C	135°C			
PM09S01N PM27S01N	○	○	○	×	×

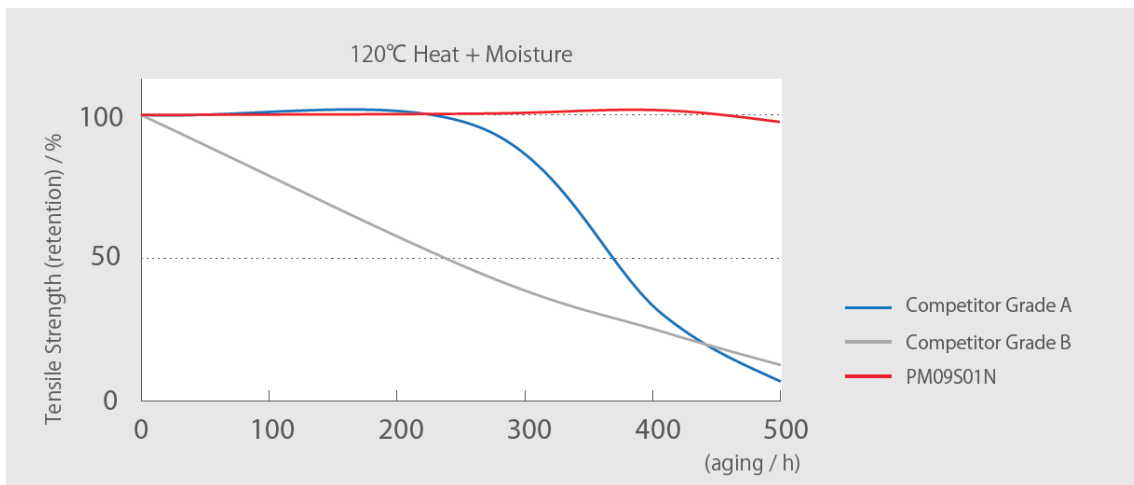
○: Usable ×: Not recommended

Excellent Slip & Wear Properties

DURACON® POM is recognized as a high sliding plastic resin with excellent wear performance. PM series shares these characteristics, enabling more design freedom for medical devices. Polyplastics can provide customized test data that best represents your application.



Superior Heat Durability



DISCLAIMER:

- The Materials are not designed, developed or manufactured for any use in transplantation or implant.
- There is no evidence that the Materials function well with sufficient quality and performance when it is used for any transplantation or implant.
- Polyplastics has never conducted appropriate studies or assessments as to the safety and suitability of the Materials for its use in any transplantation and implant.

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