

Solution for Your Healthcare Applications

DURACON® POM “PM Series”

DURACON® POM

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

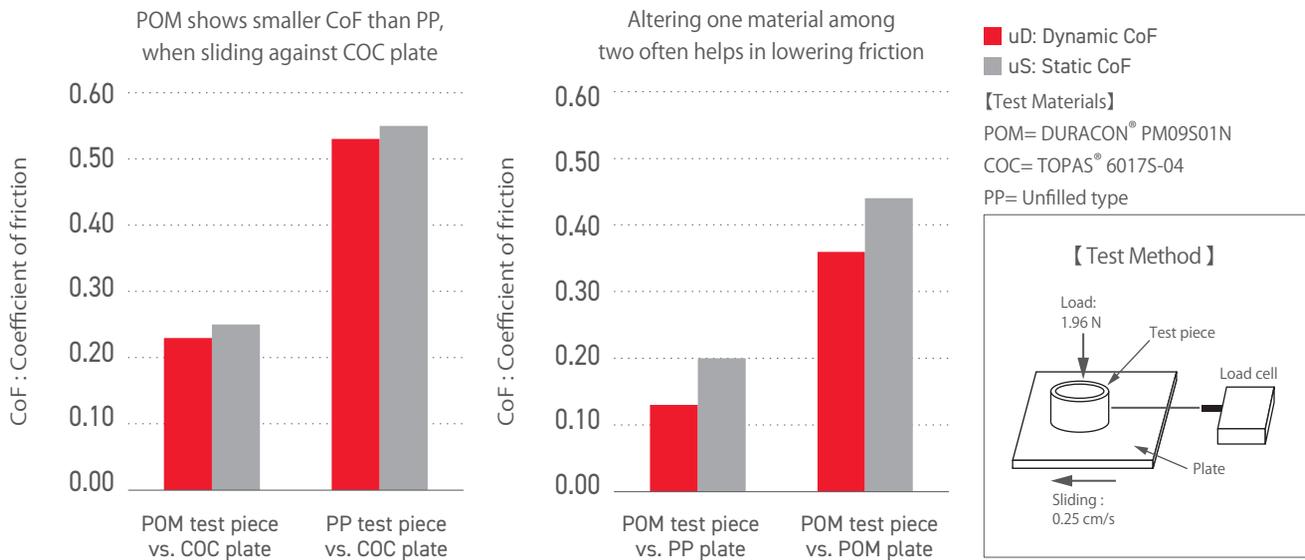
▶ PM Series tolerate hot steam & EOG sterilization conditions

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

○ : Usable × : Not recommended

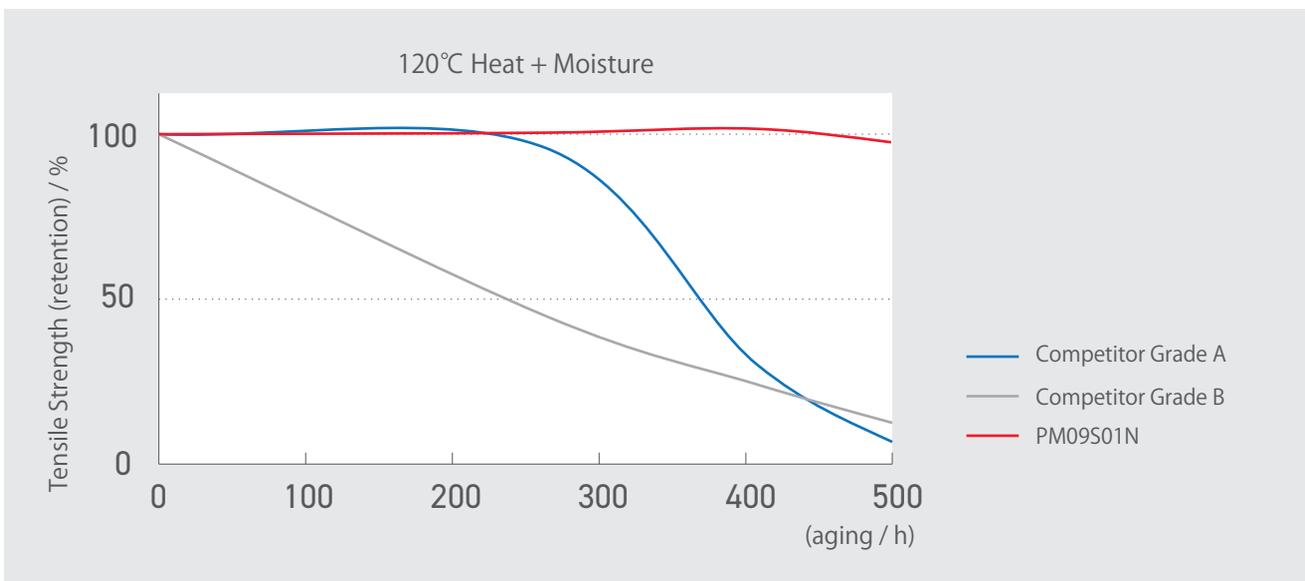
Excellent Slip & Wear Properties

- ▶ DURACON® POM's excellent slip & wear properties enable easy motion to enable more design freedom
- ▶ Polyplastics can provide customized test data that best represent your application and sliding mode



Superior Heat Durability

- ▶ PM Series show superior heat / moisture durability



... for more, please contact us www.polyplastics-global.com

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.