

## TriStar TriSteel PE Metal Backed PTFE Bearing System

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polyethylene (PE)

### Material Notes:

Ultraflon 603 PE lined metal backed bearing system, with or without lube, high PV, high temperature... Ultraflon 603 PE Liner is a bearing grade polymer for use in lubricated or unlubricated environments. With lubrication, PV ratings can be in excess of 1,000,000. Lubrication reservoirs are available on the liner to produce a constant storage and pumping action for better hydrodynamic film generation. For dry applications reservoirs are not used.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_TriStar-TriSteel-PE-Metal-Backed-PTFE-Bearing-System.php](http://www.lookpolymers.com/polymer_TriStar-TriSteel-PE-Metal-Backed-PTFE-Bearing-System.php)

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in <sup>3</sup>	
Water Absorption	0.15 %	0.15 %	
	@Time 86400 sec	@Time 24.0 hour	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	97	97	
Tensile Strength, Yield	221 MPa	32000 psi	
Elongation at Break	5.0 %	5.0 %	
Flexural Strength	345 MPa	50000 psi	
Flexural Modulus	13.8 GPa	2000 ksi	
Compressive Strength	136 MPa	19700 psi	
	276 MPa	40000 psi	Maximum Static Bearing Load
Compressive Modulus	13.8 GPa	2000 ksi	
Limiting Pressure Velocity	3.50 MPa-m/sec	100000 psi-ft/min	Unlubricated. Max P = 40,000 psi and max V = 2000 fpm

Thermal Properties	Metric	English	Comments
Thermal Conductivity	4.03 W/m-K	28.0 BTU-in/hr-ft <sup>2</sup> -°F	
Maximum Service Temperature, Air	232 °C	450 °F	Continuous
	260 °C	500 °F	Short Term
Brittleness Temperature	-73.3 °C	-100 °F	

## **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**