

## Guarniflon PFA Perfluoroalkoxy Polymer

Category : Polymer , Thermoplastic , Fluoropolymer , PFA

**Material Notes:**

Fluorinated thermoplastic material, offers the advantages of being thermo-processed whilst at the same time having the properties of PTFE, with excellent chemical and mechanical resistance for applications up to 260°C. Thanks to its fluidity during the processing, the final products in PFA - especially the skived film - are absolutely porous-free, hence very suitable for electrical applications. Information provided by Guarniflon®

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Guarniflon-PFA-Perfluoroalkoxy-Polymer.php](http://www.lookpolymers.com/polymer_Guarniflon-PFA-Perfluoroalkoxy-Polymer.php)

Physical Properties	Metric	English	Comments
Density	2.12 - 2.17 g/cc	0.0766 - 0.0784 lb/in <sup>3</sup>	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55 - 60	55 - 60	ASTM D2240
Tensile Strength	>= 30.0 MPa	>= 4350 psi	ASTM D638
Elongation at Break	>= 380 %	>= 380 %	ASTM D638
Flexural Modulus	0.600 GPa	87.0 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
CTE, linear	120 - 200 µm/m-°C	66.7 - 111 µin/in-°F	25°C to 100°C; ASTM D696
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft <sup>2</sup> -°F	ASTM D177
Melting Point	300 - 310 °C	572 - 590 °F	
Maximum Service Temperature, Air	260 °C	500 °F	
Minimum Service Temperature, Air	-200 °C	-328 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	30.0 - 40.0 kV/mm	762 - 1020 kV/in	ASTM D149

## Contact Songhan Plastic Technology Co.,Ltd.

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