

## 3M Dyneon™ PFA 6505TZ Fluoroplastic Granules

Category : Polymer , Thermoplastic , Fluoropolymer , PFA

### Material Notes:

3M™ Dyneon™ Fluoroplastic Granules PFA 6505TZ (a fully fluorinated copolymer of tetrafluoroethylene and perfluorovinylether) has exceptional temperature resistance, excellent electrical properties and excellent chemical inertness and weather resistance. It is used in molded valves, pumps, tanks, filters, pipes, and in wire and cable applications. Features and Benefits: Excellent flexibility, wide service temperature range, excellent, almost universal resistance to solvents and chemicals, high transparency, extremely high weathering resistance and UV stability, smooth surfaces, broad processing window, high limiting oxygen index: does not support combustion, good non-stick characteristics, excellent electrical insulation properties, excellent mold release, good low friction properties, excellent stress crack resistance. Information provided by the Dyneon division of 3M.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Dyneon-PFA-6505TZ-Fluoroplastic-Granules.php](http://www.lookpolymers.com/polymer_3M-Dyneon-PFA-6505TZ-Fluoroplastic-Granules.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.15 g/cc	2.15 g/cc	ASTM D792
Melt Flow	5.0 g/10 min	5.0 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 372 °C	@Load 11.0 lb, Temperature 702 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ASTM D2240
Tensile Strength at Break	32.0 MPa	4640 psi	ASTM D638
Elongation at Break	410 %	410 %	ASTM D638
Flexural Modulus	0.550 GPa	79.8 ksi	Injection Molded Bars (0.5"x.125"x 5"); ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	308 °C	586 °F	ASTM D4591
Flammability, UL94	V-0	V-0	
Oxygen Index	>= 95 %	>= 95 %	ASTM D2863

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent, but thickness not quantified

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