

3M Dyneon™ PFA 6503PBZ Fluoroplastic Powder

Category : Polymer , Thermoplastic , Fluoropolymer , PFA

Material Notes:

3M™ Dyneon™ Fluoroplastic Powder PFA 6503PBZ is a fluorothermoplastic powder with excellent thermal stability characteristics, designed for use in thin film powder coatings. Typical applications include non-stick surfaces, chemical vessel and tank liners, electrical insulation and low friction applications. Features and Benefits: Excellent thermal stability, Excellent electrostatics, Excellent non-stick performance, Outstanding flow and fluidization, Excellent stress crack resistance, Smooth surfaces. Process targets: powder coating. Non-wetting, Heat resistant to 260°C (500°F), Low friction, Good transparency, Chemical resistant. This product complies with 21 CFR 177.1550 FDA regulations. Information provided by the Dyneon division of 3M.

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Dyneon-PFA-6503PBZ-Fluoroplastic-Powder.php

Physical Properties	Metric	English	Comments
Specific Gravity	2.15 g/cc	2.15 g/cc	ASTM D792
Bulk Density	0.800 g/cc	0.0289 lb/in ³	DIN 53466
Particle Size	30 µm	30 µm	
Melt Flow	3.0 g/10 min @Load 5.00 kg, Temperature 372 °C	3.0 g/10 min @Load 11.0 lb, Temperature 702 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ASTM D2240
Tensile Strength at Break	30.0 MPa	4350 psi	ASTM D638
Elongation at Break	380 %	380 %	ASTM D638
Flexural Modulus	0.550 GPa	79.8 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	308 °C	586 °F	ASTM D4591
Maximum Service Temperature, Air	260 °C	500 °F	
Oxygen Index	>= 95 %	>= 95 %	ASTM D2863

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

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