

Dyneon™

Fluorothermoplastics

PFA 6503 B EPC

Product Features

- Excellent Electrostatics
- Excellent non-stick performance
- Outstanding flow and fluidization
- Good stress crack resistance
- Smooth surfaces
- Good transparency
- Low friction
- Non-wetting
- Heat resistant to 500°F (260°C)
- High dielectric strength
- Cryogenic stability
- Chemical resistance
- Process targets: powder coating

Typical Properties (Data not for specification purposes)

	Test Method	Unit	Value
Form: Agglomerate			
Melting Point	ASTM D 4591	°C (°F)	308 (586)
MFI (372°C/5 kg)	ASTM D 1238	g/10min	3
Specific Gravity	ASTM D 792	g/cc	2.15
Bulk Density	DIN 53466	g/l	800
Tensile Strength At 23°C	ASTM D 638	MPa (psi)	30 (4350)
Ultimate Elongation At 23°C	ASTM D 638	%	380
Hardness Shore D	ASTM D 2240	-	60
LOI	ASTM D 2863	%	>95
Flexural Modulus	ASTM D 790	MPa (psi)	550 (80,000)
Median Particle Size		μ	30

Introduction

Dyneon PFA 6503 B EPC is a fluorothermoplastic powder for powder coating applications, and is designed for thin film applications where target film thickness is 25-40μ per pass. Typical applications include non-stick surfaces, chemical vessel and tank liners, electrical insulation and low friction applications.



Product Form & Packaging

Dyneon™ PFA 6503 B EPC is supplied in powder form. Product is supplied in 50kg (110 lb.) quantities.

Storage and Material Handling

Dyneon PFA 6503 B EPC has an unlimited shelf life provided it is stored in a clean, dry place in its original, unopened container. Dyneon PFA 6503 B EPC is hydrophobic, and generally does not require drying before processing unless high humidity conditions create surface moisture adsorption. Opened containers should be tightly resealed to prevent dust contamination from static charge accumulation and moisture ingress. Containers should be equilibrated to room temperature before opening. Best performance is achieved by sieving with a 60 mesh sieve prior to use.

Safety/Toxicology

This is a fluoroplastic material, so normal precautions observed with fluoroplastics should be followed. Before processing this product, consult the Material Safety Data Sheet and follow all label directions and handling precautions. General handling/processing precautions include: (1) Process only in well-ventilated areas; (2) Do not smoke in areas contaminated with powder/residue from this product; (3) Avoid eye contact; (4) After handling this product wash any contacted skin with soap and water. Potential hazards, including evolution of toxic vapors, can exist if processing occurs under excessively high temperature conditions. Vapor extractor units should be installed above processing equipment. When cleaning processing equipment, do not burn off this product with an open flame or in a furnace.

Food Contact/FDA Regulatory Status

This product may be used under 21 CFR 177.1550 as articles or components of articles intended to contact food subject to the provisions, including specifications, conditions of use, and limitations, if any, in this regulation.

Dyneon makes no recommendation about the suitability of this product in the user's intended application. It is user's responsibility to determine whether its use of a Dyneon product in a particular application is suitable and will comply with applicable laws and regulations.

Our Worldwide Commitment to Quality

Indicative of our commitment, most Dyneon design, development, production and service facilities have achieved global quality management certification. Production facilities have also received certification for their environmental management system. Please see the Dyneon website (www.dyneon.com) for the most up-to-date certification details.

Technical Information and Test Data

Technical information, test data, and advice provided by Dyneon personnel are based on information and tests we believe are reliable and are intended for persons with knowledge and technical skills sufficient to analyze test types and conditions, and to handle and use raw polymers and related compounding ingredients. No license under any Dyneon or third party intellectual rights is granted or implied by virtue of this information.

Important Notice:

Because conditions of product use are outside Dyneon's control and vary widely, user must evaluate and determine whether a Dyneon product will be suitable for user's intended application before using it. **The following is made in lieu of all express and implied warranties (including warranties of merchantability and fitness for a particular purpose): If a Dyneon product is proved to be defective, Dyneon's only obligation, and user's only remedy, will be, at Dyneon's option, to replace the quantity of product shown to be defective when user received it or to refund user's purchase price. In no event will Dyneon be liable for any direct, indirect, special, incidental, or consequential loss or damage, regardless of legal theory, such as breach of warranty or contract, negligence, or strict liability.**

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