

DuPont™ Teflon® PTFE 807N X

PTFE GRANULAR MOLDING RESIN

Product Information

Description

Teflon® PTFE 807N X is a free flowing PTFE granular resin designed for compression or automatic molding and ram extrusion (low back pressure). It offers an excellent combination of properties that are characteristic of Teflon® fluoropolymer resins:

- chemical inertness,
- exceptional dielectric properties,
- heat resistance,
- toughness and flexibility,
- low coefficient of friction,
- non-stick characteristics,
- negligible water absorption,
- excellent weather resistance.

Teflon® PTFE 807N X is a multi-purpose PTFE resin which yields high productivity due to its high fill density. It is easy to process, handle and machine. It also has excellent end-use properties.

Typical Applications

Can be fabricated into billets for skived tape, basic shapes and moldings.

It can be used for applications such as:

- seals,
- valve seats,
- bearing pads,
- linings,
- gaskets,
- electrical/electronic parts.

Processing

Teflon® PTFE 807N X can be used in conventional PTFE processing techniques. In compression molding, a preform is made at room temperature and subsequently sintered at 365–380 °C. Preform pressures of 20 MPa to 50 MPa may be used. Mold shrinkage and tensile properties vary with perform pressure, sintering conditions, and geometry of the part.

Food Contact Compliance

Properly processed products (sintered at high temperatures common to the industry) made from Teflon® PTFE 807N X resin can qualify for use in contact with food in compliance with FDA 21 CFR 177.1550 and European Regulation (EU) No 10/2011. For details and information, please contact your DuPont representative.

Safety Precautions

Before processing any fluoropolymers, read the Material Safety Data Sheet, available upon request from our Customer Care Group at (800) 207-0756 in the US or (302) 996-7906 (outside of the US). Also read the detailed information in the latest edition of the "Guide to the Safe Handling of Fluoropolymer Resins," published by the Fluoropolymers Division of The Society of the Plastics Industry (www.fluoropolymers.org) or by PlasticsEurope (www.plasticseurope.org).

Packaging

Teflon® PTFE 807N X is packaged in 50 kg plastic boxes. For shipping convenience, orders of 600 kg (12 boxes/pallet) are recommended.



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Typical Property Data for Teflon® PTFE 807N X

Property	Test method		Unit	Typical value
Particle size, average diameter	ISO 13320		µm	550
Standard specific gravity	ISO 12086	ASTM D 4894		2,159
Bulk density	ISO 12086	ASTM D 4894	g/l	900
Tensile strength ¹⁾	ISO 12086	ASTM D 4894	MPa	33
Elongation ¹⁾	ISO 12086	ASTM D 4894	%	320
Melting peak				
Initial	ISO 12086	ASTM D 4894	°C	344
Second	ISO 12086	ASTM D 4894	°C	327
Thermal Instability Index	ISO 12086	ASTM D 4894	–	5
Water content	ISO 12086	ASTM D 4894	%	<0.04

Note: Teflon® PTFE 807N X meets the requirements of ASTM D 4894-91a/07, type IV, grade 2.

Typical properties are not suitable for specification purposes.

1) Measured on skived tapes with a thickness of 0.13 mm.

CAUTION: Do not use DuPont materials in medical applications involving permanent implantation in the human body or contact with bodily fluids or tissues unless the material has been provided from DuPont under a written contract that is consistent with DuPont policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your DuPont representative. You may also visit www.teflon.com/industrial to download a copy of the "DuPont POLICY Regarding Medical Applications" H-50103 and "DuPont CAUTION Regarding Medical Applications" H-50102.

For medical emergencies, spills, or other critical situations, call 1-800-441-7515 within the United States. For those outside of the United States, call 1-302-774-1000.

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This product is manufactured with technology that meets the goals of the U.S. Environmental Protection Agency (EPA) 2010/15 PFOA stewardship program. See www.fluoropolymers.dupont.com for more details.

for more information, visit www.teflon.com/industrial

for sales and technical support contacts, visit www.teflon.com/industrialglobalsupport

HOW TO USE THE DUPONT™ TEFLON® BRAND NAME WITH YOUR PRODUCT

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