

3M™ Dyneon™ PTFE TF 2025Z

Polytetrafluoroethylene

3M Advanced Materials Division

Message:

PTFE fine powder for unsintered thread sealing tape, joint sealing and pipe lining applications

Features

Meets ASTM D 4895-04 Type I, Grade 1, Class B classification.

3M™ Dyneon™ PTFE Paste TF 2025Z is the recommended grade for pipe liner applications in chemical plant construction due to higher green strength

High molecular weight PTFE powder produced by the emulsion polymerization

Fine powder grade for low to medium reduction ratio

Providing high stretch ratio

Product grade with higher extrusion pressure and green strength level than 3M™ Dyneon™ PTFE Paste TF 2021Z.

Processing by standard paste extrusion methods

| General Information | |
|---------------------|-----------------------|
| Features | High Molecular Weight |
| Uses | Liners |
| | Seals |
| | Tape |
| Forms | Paste |
| | Powder |
| Processing Method | Calendering |
| | Ram Extrusion |
| | Sintering |

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-------------------|-----------------|
| Density ¹ | 2.15 | g/cm ³ | ISO 12086 |
| Apparent Density | 0.48 | g/cm ³ | ISO 60 |
| Average Particle Size | 530 | µm | ISO 13320 |
| Extrusion Pressure - reduction ratio 400 | 40.0 | MPa | ASTM D4895 |
| Reduction Ratio | 20-300:1 | | Internal Method |

| Films | Nominal Value | Unit | Test Method |
|---|---------------|------|-------------|
| Tensile Strength ² | 34.0 | MPa | ISO 527-3 |
| Tensile Elongation ³ (Break) | 370 | % | ISO 527-3 |

| NOTE | |
|------|-------------------------------|
| 1. | measured on sintered moldings |
| 2. | measured on sintered moldings |
| 3. | measured on sintered moldings |

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