

3M™ Dyneon™ PTFE TF 2072Z

Polytetrafluoroethylene

3M Advanced Materials Division

Message:

PTFE fine powder for tubing, wire and cable applications

Features

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

3M™ Dyneon™ PTFE Paste TF 2072Z is a valuable addition 3M™ Dyneon™ PTFE Paste TF 2071Z for thin-wall, small diameter tubing and wire and cable insulation with maximum RR of up to 3000:1

High molecular weight PTFE powder, produced by the emulsion polymerization

Product grade with lower extrusion pressure and green strength values than PTFE Paste TF 2071Z

PTFE Paste TF 2072Z needs less lubricant than PTFE Paste TF 2071Z (1 part by weight less per 100 parts PTFE)

| General Information | |
|---------------------|---------------------------|
| Features | High Molecular Weight |
| Uses | Insulation |
| | Tubing |
| | Wire & Cable Applications |
| Forms | Paste |
| | Powder |
| Processing Method | Ram Extrusion |
| | Sintering |

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-----------------|
| Density ¹ | 2.17 | g/cm ³ | ISO 12086 |
| Apparent Density | 0.47 | g/cm ³ | ISO 60 |
| Average Particle Size | 440 | µm | ISO 13320 |
| Extrusion Pressure - reduction ratio 1600 | 40.0 | MPa | ASTM D4895 |
| Reduction Ratio | 50-3000:1 | | Internal Method |

| Films | Nominal Value | Unit | Test Method |
|---|---------------|------|-------------|
| Tensile Strength ² | 35.0 | MPa | ISO 527-3 |
| Tensile Elongation ³ (Break) | 470 | % | ISO 527-3 |

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

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