

## PTFE F-303

### Characteristics

Daikin PTFE F-303 is a high molecular weight polytetrafluoroethylene fine powder resin for paste extrusion manufactured without the use of PFOA. F-303 has been specifically designed for the manufacture of medium to large diameter thick wall tubing requiring improved heat resistance, thermal fusion and/or stress crack resistance properties. This grade exhibits high green strength required for vertical processing.

Properties*	Units	Typical Value	Test Method
Bulk Density	g/L	400 - 550	ASTM D4895
Std Specific Gravity	---	2.140 - 2.155	ASTM D4895
Tensile Strength (Min.)	MPa	25.0	ASTM D4895
Elongation (Min.)	%	250	ASTM D4895
Particle Size	Microns	400 - 650	ASTM D4895
Extrusion Pressure	KgF/cm <sup>2</sup>	160 - 270	Daikin Method
Appearance	---	White Powder	Visual

\*Typical properties are not suitable for specification purposes.

### Safety & Handling

Daikin PTFE F-303 should be handled like other Daikin PTFE resins. When PTFE resins are heated to temperatures above 260°C, minor amounts of decomposition products are given off. These decomposition products may be harmful and inhalation of these fumes must be avoided. Ovens, process equipment and the working area must be adequately ventilated. For further information, please refer to the safety data sheet for this product.

### Storage & Use

Daikin *Polyflon*<sup>™</sup> PTFE Fine Powder must be in a completely powdered form to enable uniform pouring when it is blended with extrusion aid. Strong vibrations and shocks should be avoided during transport as these may cause lumps to form. Store the powder at 15°C (60°F) or below. Ideal storage conditions are a dry location with a temperature of 10-15°C (50-60°F). If lumps exist in the powder prior to blending with extrusion aid, the powder should be sifted, using a No. 8 mesh sieve. Care must be taken to pour the powder gently into the sieve and not crush the powder particles.