

## DAIKIN-POLYFLON™ PTFE M-112

Daikin- *Polyflon*™ M-112 is a modified polytetrafluoroethylene virgin granular fine cut resin. This next generation molding powder has been specifically designed for use in small to large billet compression molding. It is particularly well suited for flex applications, such as diaphragms and bellows, that require an extended service life compared to that of conventional PTFE. It exhibits excellent creep resistance and weldability characteristics.

Properties*	Units	Typical Value	Test Method
Bulk Density	g/mL	0.31 - 0.41	JIS K6891
Std Specific Gravity	---	2.143 - 2.153	ASTM D4894
Tensile Strength	MPa	30.0 - 55.0	JIS K6891
Elongation	%	300 - 500	JIS K6891
Breakdown Voltage	kV/0.1mm	10.0 - 15.0	ASTM D 149
Shrinkage	%	3.3 - 4.1	Daikin Method
Appearance	---	White Powder	Visual

\*Typical properties are not suitable for specification purposes.

### Safety & Handling

Daikin- *Polyflon*™ PTFE M-112 should be handled like other Daikin- *Polyflon*™ 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

Granular molding powders tend to form agglomerates easily; therefore, do not store large quantities of powder in deep containers; avoid strong vibrations and shock. Storage at temperatures above 19°C tends to promote agglomerate formation. Should agglomerates form, keep the powder at less than 19°C (ideally 15°C or below) for two days then sift through a coarse screen and allow to come to room temperature before molding.