TECHNICAL DATA SHEET

DAIKIN-*POLYFLON*™ PTFE M-111

Daikin- *Polyflon*™ M-111 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 sheet lining, gasket and compression applications. It exhibits excellent creep resistance and weldability characteristics.

Properties*	Units	Typical Value	Test Method
Bulk Density (Min.)	g/L	310 - 440	ASTM D4894
Std Specific Gravity	---	2.166 - 2.176	ASTM D4894
Tensile Strength (Min.)	MPa	35	ASTM D4894
Elongation (Min.)	%	400	ASTM D4894
Breakdown Voltage (Avg. Min.)	kV/0.1mm	8.0	Daikin Method
Shrinkage	%	3.7 - 4.7	Daikin Method
Appearance	---	White Powder	Visual

***Typical properties are not suitable for specification purposes.**

Safety & Handling

Daikin- *Polyflon*™ PTFE M-111 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.