Precision Polymer Engineering Limited				
PERLAST® Data Sheet	Material Code	G75G	Issue 1 Revision 1	
	Designation	FFKM	May 2006	

MATERIAL TYPE: Perlast ® G75G FFKM Green Perfluoroelastomer 70-80 °IRHD.
Specially developed for critical applications where good chemical resistance coupled with easy identification is required. Particularly suited for the Chemical Process and Analytical Science industries.

TEMPERATURE RANGE: Maximum operating temp: **+310 °C (590°F)**. Minimum operating temp: **-15 °C (+5°F).**

TYPICAL PHYSICAL PROPERTIES:

Property	**Unit**	**Test Method**		**Value**
Hardness (points)	°IRHD	ASTM D 1415	(=ISO 48)	73
Tensile strength	MPa	ASTM D 412	(=ISO 37)	16.8
Elongation at break	%	ASTM D 412	(=ISO 37)	238
100% Modulus	MPa	ASTM D 412	(=ISO 37)	9.6
Compression Set, Method B;				
24 hours at 200°C (392°F)	%	ASTM D 395	(=ISO 815)	19.7
Heat Resistance;				
72 hours at 200°C (392°F)		ASTM D573	(=ISO 188)	
Hardness change (points)	°IRHD	ASTM D 1415	(=ISO 48)	-2
Tensile strength change	%	ASTM D 412	(=ISO 37)	-15
Elongation at break change	%	ASTM D 412	(=ISO 37)	-10

STORAGE RECOMMENDATION: Initial storage = 10 years, extended storage = additional 5 years.

HEALTH & SAFETY DATA: No known hazard exists if used in accordance with the temperature range as quoted.

FIRE HAZARD: Ignition temperature >400°C (750°F).
Thermal decomposition will generate hydrogen fluoride, fluorinated hydrocarbons, carbon monoxide and carbonyl fluoride. In the event of fire, fire fighters must wear self-contained breathing apparatus and a protective suit. Extinguish with water, foam, carbon dioxide or dry chemical. Neutralise any refuse from a fire involving perfluoroelastomer with calcium hydroxide solution and wear Neoprene® gloves when handling.

DISPOSAL: Must conform to national, state and/or local regulations. Landfill is recommended. Burning is not recommended, unless conducted by an approved/licensed incineration agency.

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