

Coretec™ PCTFE Specifications (Polychlorotrifluoroethylene)

General Description

PCTFE M400H (formerly Kel-F) contains no plasticizers, fillers or other additives.

Grade: Daikin M400H

Meets ASTM D1430

Lot to lot testing is available on the following:

- Bulk density
- Flow value
- Zero strength time

Physical Property	Test Method	Value
Specific gravity	ASTM D792	2.11 - 2.16
Crystallinity		40 - 80%
Color		Natural (Custom colors available upon request)
Mechanical Property	Test Method	Value
Tensile strength	ASTM D638	4830 - 5685.5 psi (33.3-39.2MPa)
Elongation	ASTM D638	100 - 250%
Flexural modulus of elasticity	ASTM D695	(1.2 - 1.4) x 10 ⁹
Hardness		D80
Impact strength	ASTM D256	134 - 144 J/m
	ASTM D1430	ZST 301 - 450
Deformation under load 24 hrs/686N		25°C: less than or equal to 0.2%
		80°C: 1.4 - 1.6%
		100°C: 4.5 - 6.5%
Thermal Property	Test Method	Value
Melting point		210 - 212°C (410 - 413.6°F)