

CHR[®] 2045-2TH

PTFE Film Tape with Silicone Adhesive



Typical Physical Properties

	VALUE	ASTM METHOD
MECHANICAL-Substrate		
Tensile Strength, psi (5-10 mil T)	4500	D638/D882
Flexural Creep Modulus, psi	78,000	Bend Creep Test, 1min.
Tensile Impact Strength, ft-lb/in	3.35	D1822
Elongation at break, %	200	D638/D882
Density, (gm/cm) ³	2.13—2.24	D792
Shore Hardness D	50--65	D2240
THERMAL-Substrate		
Heat Distortion Temperature	327°C	D1637
Temperature Range	-40 to +110° C	---
Coefficient of Linear Thermal Expansion, (21-100°C)	3.8x 10 ⁻⁵	D696
Adhesive		
Peel Strength(N/25mm)	5	ASTM D1000
Shear Strength (1X1 inch, 1000grams) (minutes)	11000	ASTM D3654
Total thickness mm	0.045	---
Color	Grey	---

COMPARISON TABLE – COEFFICIENT OF FRICTION	
MATERIAL	VALUE
UHMW PE (Konton T6000 series)	0.15 - 0.20
Nylon® 6 (Polyamide)	0.15 - 0.40
Nylon® 66 (Polyamide)	0.15 - 0.40
PTFE (Polytetrafluoroethylene)	0.04
Polyacetal	0.15 - 0.35

*Above properties are typical values and should not be used for writing specifications.

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Features

- Excellent insulation property
- Provides excellent self-lubrication property
- Low coefficient of friction.
- Can be used to provide an anti-stick, anti-friction surface at temperatures up to 260°C.