

Abrasion Resistant Cable Liner

## FITCO<sup>®</sup> Liner HP PTFE

### Description

PTFE based economic Control Cable Liner for light duty, high temperature applications (up to 200 °C) where high performance and long life liner is not required. Unfilled material with the basic anti-slip stick characteristic provided by PTFE.

### Application

Ideally suited for hood latch cables that are subjected to high temperatures found in engine compartments of automobiles as well as door latches and lock controls.

Properties	Test Method	Typical Value
<b>Typical</b>		
Molecular weight	-	100 G/mol.
Comonomer content	-	< 1 % weight
Melting point	(ASTM D-4591)	327-342 °C
Melt viscosity	-	10 <sup>10</sup> -10 <sup>11</sup> Pa.s
Melt flow rate	-	No flow (g/10 min)
<b>Mechanical</b>		
Specific gravity	ISO 1183	2.16 g/cm <sup>3</sup>
Tensile strength	ISO 12086	26-36 MPa
Ultimate elongation	ISO 12086	325 %
Flex life	D2176 (M.I.T. 0.2mm, 270° flex)	88 5000 -> 90 x10 <sup>6</sup> Cycles to failure
Flexural modulus	ISO 178	490 MPa
Impact resistance (23° / -54°)	ASTM D-256	185 / 107 J/m
Hardness	ISO 868	D-55 Shore D
Coefficient of friction	Dynamic, ASTM D 1894	0.1
<b>Thermal</b>		
Peak melting temp.	ASTM 4591	327°C
Service temp.	20 000 h	260°C
Flame class	UL 94	94V-0
Limiting oxygene	-	> 95%
Heat of combustion	ISO 1716	4.9-5.0 MJ/kg
<b>Electrical</b>		
Relative permittivity	ASTM D-150	2.040 1 kHz – 1MHz
Dissipation factor	ASTM D-150	0.00010 @ MHz
ARC Resistance	ASTM D-495*	240-300 s
Volume resistivity	ASTM D-257	>10 <sup>16</sup> Ω.m
Surface resistivity	-	>10 <sup>16</sup> Ω