FTEP Cable Liner

FITCO® Liner FP080

Cable liner made of technical polymer (fluortep)

Description
FITCO® Liner FP080 offers low friction performance resulting in good service efficiency. Another important feature of this liner is dimensional accuracy achieved by specially designed extrusion lines combined with inline laser measuring equipment. This will guarantee dimensional accuracy and will maintain a +/- 0.05mm tolorance on ID and OD, which compares to industry standards generally at +/- 0.08mm or +/- 0.10mm. Laboratory tests confirm that FITCO® Liner FP080 cable liners offer many advantages compared to alternative polymers (e.g. HD, PBT, POM, Etc.). Furthermore FP080 features better durability and cost-effectiveness compared to PTFE.

Application
Trunk and Hood latch cabels and other light duty applications.

Shrinkage (Parallel): 1.4%

Shrinkage (Parallel, annealed): 0.2%

FTEP Liner - Performance	
Cycles	800,000
Initial Efficiency	80%
Final Efficiency	78%

Properties	Test Method	Typical Value
Mechanical		
Specific density	ISO 1183	1,31 g/cc
Efficiency (Molykote Lub. grease used)	Liner FP080: ID 2.5, OD 4.5	80%
Strain at break	ISO 527-2/1A, 50mm/min	70 MPa
Yield stress	ISO 527-2/1A, 50mm/min	60 MPa
Tensile modulus	ISO 527-2/1A, 50mm/min	2800 MPa
Thermal		
Melt temperature	ISO 11357-1,2,3	235°C
Coefficient of Linear thermal expansion (CLTE Parallel -40-23°C)	ISO 11359-1/-2	0.75
Coefficient of Linear thermal expansion (CLTE Parallel 23-55°C)	ISO 11359-1/-2	1.09
Coefficient of Linear thermal expansion (CLTE Parallel 55-160°C)	ISO 11359-1/-2	1.45
Vicat Softening Temperature – 50N	ISO 306	175°C
Continous operating temperature*	-	-40°C to 130°C
Short term peak temperature*	-	150°C
Flammability (1.0mm thickness)	DIN 75 200, ISO 3795; FMVSS 302	< 100 mm/min

* Preliminary values, to be confirmed after long term testing