

FITCO® Liner FP120-M (smooth)

FITCO® Liner FP120-M is a cable liner consisting of a specially formulated engineering polymer. It offers a low coefficient of friction, generally high durability and very good heat resistance, resulting in good overall service efficiency. It ensures a tight tolerance of +/- 0.05 mm on ID and OD.

FITCO® Liner FP120-M is PFAS-free, REACH compliant and fully recyclable. It is therefore particularly suitable for use in the automotive industry, e.g. for automatic and manual transmission.

Operating temperature:	-40°C to +140°C (short-term up to +160°C)
Cycles:	1,000,000 to 1,200,000
Initial efficiency:	84%
Final efficiency:	80%



Properties	Test Method	Typical Value
Physical		
Specific density	ISO 1183	1.34 g/cc
Shrinkage (parallel)	-	1.4%
Shrinkage (parallel, annealed)	-	0.2%
Mechanical		
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
Charpy impact, notched	ISO 179/1eA	6 J/cm ²
Thermal		
Melt temperature	ISO 11357-1,2,3	+235°C
Deflection temperature (0.45MPa)	ISO 75-1,-2	180°C
Coefficient of Linear thermal expansion (CLTE Parallel -40°C - +23°C)	ISO 11359-1/-2	0.75
Coefficient of Linear thermal expansion (CLTE Parallel +23°C - +55°C)	ISO 11359-1/-2	1.09
Coefficient of Linear thermal expansion (CLTE Parallel +55°C - +160°C)	ISO 11359-1/-2	1.45
Vicat Softening Temperature – 50N	ISO 306	175°C
Flammability (1.0mm thickness)	DIN 75 200, ISO 3795	<100 mm/min