

LATILUB 85-10E Y/15

 LATI INDUSTRIA TERMOPLASTICI SPA - *Polyethersulfone*
General Information
Product Description

Self-lubricating product based on Polyethersulphone (PESU). UHMWPE. Aramid fibres. PFAS-free product.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Aramid Fiber	• UHMW Polyethylene	
Features	• High Heat Resistance	• PFAS Free	• Self Lubricating
Uses	• High Temperature Applications		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.28	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.75 to 0.95	%	
Flow : 0.0787 in	0.70 to 0.90	%	
Water Absorption ³ (Saturation, 73°F)	0.65	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	377000	psi	ISO 527-1/1
Tensile Stress (Break, 73°F)	7250	psi	ISO 527-2/5
Tensile Strain (Break, 73°F)	3.0	%	ISO 527-2/5
Coefficient of Friction ⁴			Internal Method
Dynamic	0.31		
Static	0.26		
Wear Factor ⁵	690	10 ⁻¹⁰ in ³ ·min/ft·lb·hr	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	1.5	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	9.5	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	410	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	383	°F	ISO 75-2/A
Vicat Softening Temperature	419	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	2.8E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	2.8E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- ⁶	1.4	Btu·in/hr/ft ² /°F	
-- ⁷	1.4	Btu·in/hr/ft ² /°F	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	ASTM D257
Dielectric Strength (73°F, 0.0787 in, Method A (Short-Time))	380	V/mil	ASTM D149

Notes
¹ Typical properties: these are not to be construed as specifications.

² 60 MPa

³ in air

⁴ ISO 7148-2 (speed 0.126 m/s, load 10N)

⁵ ISO 7148-2 (speed 0.126 m/s, load 10N, path length 13.6km)
