

TECAFORM AH LA blau

Chemical Designation :	Polyoxymethylen (Copolymer)
DIN-Abbreviation:	POM-C
Colours, fillers:	blue, solid lubricant

Main features

very good sliding properties	wear resistant
rigid	strong
resistant to numerous detergents	resistant to xxx acids
tough	difficult to bond
good electrical insulation	easily machined

Preferred Fields

mechanical engineering	automotive engineering
transport and conveyor technology	textile machinery
electrical engineering	precision engineering
process technology	packaging and paper processing machinery
dispensing machinery	

Applications

Friction bearings, friction strips, gears, seals, wiper blades, insulating bushes, chain guides, rollers

Properties

Mechanical	dry / moist		standard
Tensile strength at yield	45	MPa	DIN EN ISO 527
Elongation at yield	25	%	DIN EN ISO 527
Tensile strength at break		MPa	
Elongation at break		%	
Modulus of elasticity in tension	1600	MPa	DIN EN ISO 527
Modulus of elasticity after flexural test	2100	MPa	DIN EN ISO 178
Hardness	90		ISO 2039/1 (Kugeldruck-Härte, 358N)
Impact strength 23° C (Charpy)	>40	KJ/m ²	DIN EN ISO 179 (Charpy)
Creep rupture strength after 1000 h with static load		MPa	
Time yield limit for 1% elongation after 1000 h		MPa	
Co-efficient of friction p = 0,05 N/mm ² v=0,6 m/s on steel, hardened and ground	~0,2		
Wear p = 0,05 N/mm ² v=0,6 m/s on steel, hardened and ground		µm/km	
Thermal			
Crystalline melting point		°C	
Glass transition temperature	-60	°C	DIN 53 765
Heat distortion temperature HDT, Method A	88	°C	ISO-R 75 Verfahren A (DIN 53 461)
Heat distortion temperature HDT, Method B		°C	
Max. service temperature			
short term	140	°C	
long term	100	°C	
Thermal conductivity (23° C)		W/(K·m)	
Specific heat (23° C)	1,5	J/g.K	
Coefficient of thermal expansion (23-55°C)	16	10 ⁻⁵ 1/K	DIN 53 752

Properties

Electrical	dry / moist		standard
Dielectric constant (10 ⁶ Hz)	3,8		DIN 53 483, IEC-250
Dielectric loss factor (10 ⁶ Hz)	0,007		DIN 53 483, IEC-250
Specific volume resistance	10 ¹³ -10 ¹⁴	*cm	DIN IEC 60093
Surface resistance	10 ¹³ -10 ¹⁴		DIN IEC 60093
Dielectric strength	35	kV/mm	DIN 53 481, IEC-243, VDE 0303 Teil 2
Resistance to tracking	CTI 600		DIN 53 480, VDE 0303 Teil 1
Miscellaneous	dry / moist		standard
Density	1,35	g/cm ³	DIN 53 479
Moisture absorption (23°C/50RH)	0,2	%	DIN EN ISO 62
Water absorption to equilibrium	0,8	%	DIN EN ISO 62
Flammability acc. to UL standard 94	HB		

- (1) Testing of semi-finished products
(2) testing of injection moulded specimen

The above information corresponds with our current knowledge and indicates our products and possible applications. We cannot give a legally binding guarantee of chemical resistance, of certain properties and the suitability of our products and their applications. Our products are not destined for use in medical and dental implants. Existing commercial patents must be observed. Unless otherwise stated, these values represent averages taken from injection moulding samples, dry as moulded. We reserve the right to make technical alterations.
