

TECAFORM AD UV sw

Chemical Designation : Polyoxymethylen (Homopolymer)
DIN-Abbreviation: POM-H
Colours, fillers: black, UV stabilizer

Main features

- | strong
 - | easily welded
 - | not electrically insulating
 - | difficult to bond
 - | additional UV-stabilization
 - | good sliding properties
 - | resistant to cleaning agents and numerous solvents and detergents
 - | easily machined and polished
 - | not resistant to hot water over 60° C
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Preferred Fields

- | mechanical engineering
 - | transport and conveyor technology
 - | precision engineering
 - | jig manufacturing
 - | automotive engineering
 - | electrical engineering
 - | domestic appliance
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Applications

Plain bearings, sliding ledges, gears, plugs, feather elements, insulators, housing parts, snap connections, rollers, seals

Properties

Mechanical	dry / moist		standard
Tensile strength at yield	70	MPa	DIN EN ISO 527
Elongation at yield	14	%	DIN EN ISO 527
Tensile strength at break		MPa	
Elongation at break	25	%	DIN EN ISO 527
Modulus of elasticity in tension	3200	MPa	DIN EN ISO 527
Modulus of elasticity after flexural test	3000	MPa	DIN EN ISO 178
Hardness			DIN 53 456 (Kugeldruckhärte)
Impact strength 23° C (Charpy)	n.b.	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			
Wear p = 0,05 N/mm ² v=0,6 m/s on steel, hardened and ground		µm/km	
Thermal	dry / moist		standard
Crystalline melting point		°C	
Glass transition temperature		°C	DIN 53 765
Heat distortion temperature HDT, Method A	92	°C	ISO-R 75 Verfahren A (DIN 53 461)
Heat distortion temperature HDT, Method B	163	°C	ISO-R 75 Verfahren B (DIN 53 461)
Max. service temperature			
short term		°C	
long term		°C	
Thermal conductivity (23° C)		W/(K·m)	
Specific heat (23° C)		J/g.K	
Coefficient of thermal expansion (23-55°C)	1,1	10 ⁻⁵ /K	ISO 11359 -1 und -2 (23°C - 55°C)

Properties

Electrical	dry / moist		standard
Dielectric constant (10 ⁶ Hz)			DIN 53 483, IEC-250
Dielectric loss factor (10 ⁶ Hz)			DIN 53 483, IEC-250
Specific volume resistance		*cm	DIN IEC 60093
Surface resistance			DIN IEC 60093
Dielectric strength		kV/mm	DIN 53 481, IEC-243, VDE 0303 Teil 2
Resistance to tracking			DIN 53 480, VDE 0303 Teil 1
Miscellaneous	dry / moist		standard
Density	1,41	g/cm ³	ISO 1183
Moisture absorption (23°C/50RH)		%	DIN EN ISO 62
Water absorption to equilibrium		%	DIN EN ISO 62
Flammability acc. to UL standard 94	HB		UL-Standard 94

(1) Testing of semi-finished products

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.
