

TECAFORM AH GF 25

Chemical Designation :	Polyoxymethylen (Copolymer)
DIN-Abbreviation:	POM-C GF 25
Colours, fillers:	grey, 25% glass fibres

Main features

strong	very rigid
wear resistant	hot water resistant
resistant to numerous solvents	good electrical insulation
resistant to cleaning agents	difficult to bond
easily welded	easily machined

Preferred Fields

mechanical engineering	automotive engineering
transport and conveyor technology	electrical engineering
precision engineering	domestic appliance

Applications

Thermal insulating profiles, plug strips, levers, plugs, spring elements, insulators, housing parts, snap fit connectors, rollers, mountings

Properties

Mechanical	dry / moist	standard
Tensile strength at yield		MPa
Elongation at yield		%
Tensile strength at break	130	MPa DIN EN ISO 527

Elongation at break	3	%	DIN EN ISO 527
Modulus of elasticity in tension	9000	MPa	DIN EN ISO 527
Modulus of elasticity after flexural test		MPa	
Hardness	195		DIN 53 456 (Kugeldruckhärte)
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			
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	-60	°C	DIN 53 765
Heat distortion temperature HDT, Method A		°C	
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)		J/g.K	
Coefficient of thermal expansion (23-55°C)	3	10 ⁻⁵ /K	DIN 53 752

Properties

Electrical	dry / moist		standard
Dielectric constant (10 ⁶ Hz)	4,8		
Dielectric loss factor (10 ⁶ Hz)	0,005		
Specific volume resistance	10 ¹⁴	*cm	DIN IEC 60093
Surface resistance	10 ¹²		DIN IEC 60093
Dielectric strength	>50	kV/mm	
Resistance to tracking			

Miscellaneous	dry / moist		standard
Density	1,58	g/cm ³	DIN 53 479
Moisture absorption (23°C/50RH)	0,15	%	DIN EN ISO 62
Water absorption to equilibrium		%	
Flammability acc. to 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.
