

CAMPUS® Datasheet

BERGAMID® A70G25 - PA66-GF25
PolyOne Engineered Materials Europe



Product Texts			
BERGAMID A70G25, PA66 reinforced 25% glass fibre, general-purpose injection molding grade			
Mechanical properties	dry / cond	Unit	Test Standard
Tensile Modulus	8500 / 6500	MPa	ISO 527-1/-2
Stress at break	170 / 120	MPa	ISO 527-1/-2
Strain at break	3 / 6	%	ISO 527-1/-2
Charpy impact strength, +23 °C	65 / 90	kJ/m ²	ISO 179/1eU
Charpy impact strength, -30 °C	55 / 70	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23 °C	10 / 16	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30 °C	9 / 13	kJ/m ²	ISO 179/1eA
Thermal properties	dry / cond	Unit	Test Standard
Melting temperature, 10 °C/min	261 / *	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.80 MPa	250 / *	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	250 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	30 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	65 / *	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.6 / *	mm	IEC 60695-11-10
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	IEC 60695-11-10
Electrical properties	dry / cond	Unit	Test Standard
Relative permittivity, 1MHz	3.7 / 5.5	-	IEC 60250
Dissipation factor, 1MHz	150 / 1600	E-4	IEC 60250
Volume resistivity	1E13 / 1E10	Ohm*m	IEC 60093
Surface resistivity	* / 1E10	Ohm	IEC 60093
Electric strength	90 / 80	kV/mm	IEC 60243-1
Comparative tracking index	- / 500	-	IEC 60112
Other properties	dry / cond	Unit	Test Standard
Water absorption	6.4 / *	%	Sim. to ISO 62
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1320 / -	kg/m ³	ISO 1183
Material specific properties	dry / cond	Unit	Test Standard
Viscosity number	140 / *	cm ³ /g	ISO 307, 1157, 1628
Test specimen production	Value	Unit	Test Standard
Injection Molding, melt temperature	280	°C	ISO 294
Injection Molding, mold temperature	80	°C	ISO 10724

Characteristics

Processing	Regional Availability
Injection Molding	Europe

Delivery form
Pellets

Other text information

Injection molding

PREPROCESSING

Max. Water Content 0,1%

Pre-Drying: 80 °C 4 Hours

PROCESSING

Melt Temperature 280-300 °C

Mould Temperature 80-90 °C

Chemical Media Resistance

Acids

-  Acetic Acid (5% by mass) (23 °C)
-  Citric Acid solution (10% by mass) (23 °C)
-  Lactic Acid (10% by mass) (23 °C)
-  Hydrochloric Acid (36% by mass) (23 °C)
-  Nitric Acid (40% by mass) (23 °C)
-  Sulfuric Acid (38% by mass) (23 °C)
-  Sulfuric Acid (5% by mass) (23 °C)
-  Chromic Acid solution (40% by mass) (23 °C)

Bases

-  Sodium Hydroxide solution (35% by mass) (23 °C)
-  Sodium Hydroxide solution (1% by mass) (23 °C)

Alcohols

-  Isopropyl alcohol (23 °C)
-  Methanol (23 °C)
-  Ethanol (23 °C)

Hydrocarbons

-  n-Hexane (23 °C)
-  Toluene (23 °C)
-  iso-Octane (23 °C)

Ketones

-  Acetone (23 °C)

Ethers

-  Diethyl ether (23 °C)

Mineral oils

-  SAE 10W40 multigrade motor oil (23 °C)
-  SAE 10W40 multigrade motor oil (130 °C)

Standard Fuels

-  Diesel fuel (pref. ISO 1817 Liquid F) (23 °C)
-  Diesel fuel (pref. ISO 1817 Liquid F) (>90 °C)

Salt solutions

-  Sodium Chloride solution (10% by mass) (23 °C)
-  Sodium Hypochlorite solution (10% by mass) (23 °C)
-  Zinc Chloride solution (50% by mass) (23 °C)

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Other

-  Ethyl Acetate (23°C)
-  Hydrogen peroxide (23°C)
-  DOT No. 4 Brake fluid (130°C)
-  Ethylene Glycol (50% by mass) in water (108°C)
-  Water (23°C)

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Germany:

PolyOne Th.Bergmann GmbH

Adolf-Dambach-Strasse 2-4

D-76571 Gaggenau

Tel.: 07225 6802 0

Fax:07225 6802 10

[e-mail](#)

France:

PolyOne Engineered Materials SA, FRANCE

20, Rue Salvador Allende, BP 105

42353 La Talaudière Cedex, France

Tel.: +33 (0) 477 47 64 00

Tel.:+33 (0) 477 57 13

Spain:

Pol. Ind. Valle del Cinca

22300 Barbastro, Spain

Tel.: +34 (0) 974 31 03 14

Fax.: +34 (0) 974 31 43 11

[e-mail](#)

United Kingdom:

PolyOne Engineered Materials UL Ltd.

Newton Aycliff

Durham DL5 6EA, UK

Tel.:+44 (0) 1325 30 08 48

Fax.:+44 (0) 1325 30 14 13

Turkey:

Tekno Polimer

BERGAMID® A70G25 - PA66-GF25
PolyOne Engineered Materials Europe

103 Küçükçekmece
Istanbul, Turkey
Tel: +90 212 549 2256
Fax.: +90 212 549 2241
[e-mail](#)