Datenblatt

PA 12GB30

1. General properties

Measurement	Method & Conditions	Metric Value
Mean Diameter	ISO 13320	35 µm
Particle Size Distribution Fine Particles < 22 µm Coarse Particles > 55 µm	ISO 13320	 10 max. % 10 max. %
Powder packed density 23°C	ISO 1068-1975	0,62 ± 0,05g/cm3
Part Density 23°C	ISO 61	1,15± 0,05g/cm3
Part Water absorption at 23°C, 50% RH at equilibrium	ISO 62/1	0.3 to 0.5%

2. Thermal properties

Measurement	Method & Conditions	Metric Value
Melting point T°m	ISO 11357-3	182±2°C
Glass transition Temperature T°g	ISO 11357-3	42±2°C
Heat Deflection Temperature at 0.45 MPa	ISO 75f	180±5°C
Heat Deflection Temperature at 1.82 MPa	ISO 75f	90±5°C

3. Mechanical properties

Measurement	Method & Conditions	Metric Value
Tensile strength	ISO 527-2:93-1B	32 ± 1 MPa
Tensile modulus	ISO 527-2:93-1B	3000 ± 100 MPa
Elongation at break	ISO 527-2:93-1B	11 ± 1 %
Flexural modulus	ISO 178 (23°C)	2300 ± 25 MPa
Charpy – Impact strength (Unnotched)	ISO 179 1eU (23°C)	39 ± 2 kJ/m²
Hardness (Shore D – instantaneous)	ISO 868 (20°C)	76±1

4. Chemical resistances

PA 12 GB 30 features outstanding resistance to oils, hydraulic fluids and fuels, as well as excellent resistance to acids, bases and salts.