

Duraform GF

Glass filled material; for prototype parts emulating nylon.

General Properties			
Average grain size	Laser diffraction	60	µm
Bulk density	DIN 53466	0,59 - 0,62	g/cm ³
Density of laser-sintered part	EOS-Method	1,23 - 1,28	g/cm ³
Mechanical Properties			
Tensile modulus	DIN EN ISO 527	3200 ± 200	N/mm ²
Tensile strength	DIN EN ISO 527	48 ± 3	N/mm ²
Elongation at break	DIN EN ISO 527	6 ± 3	%
Flexural modulus	DIN EN ISO 178	2100 ± 150	N/mm ²
Charpy - Impact strength	DIN EN ISO 179	35 ± 6	kJ/m ²
Charpy - Notched impact strength	DIN EN ISO 179	5,4 ± 0,6	kJ/m ²
Izod - Impact strength	DIN EN ISO 180	21,3 ± 1,7	kJ/m ²
Izod - Notched impact strength	DIN EN ISO 180	4,2 ± 0,3	kJ/m ²
Ball indentation hardness	DIN EN ISO 2039	98	
Shore D Hardness	DIN 53505	80 ± 2	
Thermal Properties			
Melting point	DIN 53736	172 - 180	°C
Vicat softening temperature B/50	DIN EN ISO 306	166	°C
Vicat softening temperature A/50	DIN EN ISO 306	179	°C

** The mechanical properties depend on the exposure parameters used. The data are based on our latest knowledge and are subject to changes without notice. They do not guarantee properties for a particular part and in a particular application.*