

polyvinylidene fluoride with 20 % glass fibre (PVDF GF20)

We use this material in the following process(es):

Extrusion.

Extruded profiles and semifinished products

Machined parts.

Lathed and milled parts in single and serial production

Injection moulding.

Injection moulded parts up to 16.000 g

Material number		1654	
Density	ISO 1183	1,92	g/cm ³

Mechanical properties

Tensile strength	ISO 527	90	MPa
Elongation at break	ISO 527	2,5	%
Tensile modulus	ISO 527	10000	MPa
Hardness Shore (A/D) or Rockwell (R/L/M)	ISO 868, ISO 2039-2	D84	-

Electrical properties

Volume resistivity	IEC 60093	2E14	Ohm · m
Surface resistivity	IEC 60093	2E14	Ohm

Thermal properties

Thermal conductance	DIN 52 612	0,29	W/K m
Linear thermal expansion along cross to direction of flow	ISO 11359	72 -	10 ⁻⁶ /K
Melting point or glass transition temp.	ISO 11357	177	°C
Heat distortion temperature A	ISO 75 HDT/A (1.8 MPa)	158	°C
Heat distortion temperature B	ISO 75 HDT/B (0,45 MPa)	170	°C
Short time use temperature		160	°C
Continuous use temperature		150	°C
Minimal use temperature		-40	°C

Other properties

Humidity absorption at 23°C/50%	ISO 62	<0,1	%
Water absorption	ISO 62	<0,1	%
Flammability UL 94	IEC 60695-11-10	V-0	-
Transparency (opaque/translucent/clear)	opaque		
Raw material	Solef 8908/0505 (Solvay)		

This datasheet is a print-out of the material database RIWETA 4.1 and is intended for personal use only.

The figures in this datasheet are guide values. The values are affected by processing conditions, modifications, additives and environmental conditions and they do not release you from the obligation to check the validity and to undertake tests on your own. The information given is based on our state of knowledge. The material data is not to be construed as guaranteeing specific properties and the data can not be used to deduce the suitability for a particular application.

It remains the responsibility of the user of our products not to infringe patent rights and to comply with existing laws and regulations.

Kern GmbH
Technische Kunststoffteile
Clemens-Kern-Straße 1
D-56276 Großmaischeid

© 2008 by Kern GmbH, Technische Kunststoffteile
Postfach 20, D-56272 Großmaischeid, Deutschland, info@kern-gmbh.de

