

FZ-1140-D5

Outline: FZ-1140-D5 is a 40% glass fiber reinforced polyphenylene sulfide compound with reduced flash and improved mechanical properties for connector use.

■ Color: Black and Natural (Brown).

Engineering Properties of FZ-1140-D5			
Properties	Test Method	Unit	FZ-1140-D5
General Information Physical	<astm></astm>		GF40% Low flash & Tough
Specific gravity Water absorption, 23deg. /24Hrs. /in water Mold shrinkage, MD /TD ^a	D-792 D-570 D-955	- Wt.% %	1.66 0.02 0.25/1.1
Mechanical			
Tensile strength Tensile modulus Tensile elongation at break	D-638 D-638 D-638	MPa MPa %	190 15000 1.8
Poisson's ratio Flexural strength Flexural modulus Flexural elongation at break	- D-790 D-790 D-790	- MPa MPa %	0.36 270 13500 2.5
Izod impact strength notched / un notched Compressive strength	D-750 D-256 D-695	J/m MPa	100/600 200
Rockwell hardness, R/M Coefficient of friction ^b , static /dynamic	D-785 -	-	121/100 0.35/0.35
Thermal		00	
HDT A, 1.82MPa Coefficient of thermal expansion, -30 to 90 $^\circ\!\mathrm{C}$ UL Flammability $^\circ$	D-648 D-696 UL-94	℃ m/mK -	265 2.2x10 ⁻⁵ V-0 ^e
Electrical			
Dielectric strength, t=1.6mm Dielectric constant, 1MHz	D-149 D-150	kv/mm -	16 4
Dissipation factor, 1MHz Comparative tracking index (CTI) Arc resistance	D-150 D-3638 D-495	- Volt sec.	0.002 170 125
Volume resistibility	D-257	Ohm.cm	10 ¹⁶
Process Conditions		°C	
Cylinder temperature Mold temperature a: MD: Mold direction TD: Transverse direction	-	°C °C	300-340 120-150

a: MD; Mold direction, TD; Transverse direction,

b: P=150KPa, V=0.3m/s, PPS vs. carbon steel,

c: Average value of MD & TD, d: UL file No. E53829, e: t~0.4mm



Please refer to Material Safety Data Sheet for safety precautions prior to use. The information contained in this data sheet is based on tests or research DIC Corporation ('DIC') believes to be reliable, but no warranty is given by DIC concerning the accuracy or completeness thereof. The supply of the information does not release the recipient from the obligation to test the products as to their suitability for the intended applications and processes. DIC has no liability for any consequence of the application, processing or use of the information or the products. Information concerning the application of the products is not and should not be construed as a warranty as to non-infringement of intellectual property for a particular application.