



September, 2023

FZ-3600-H5 BLACK-U, FZ-3600-H5 BLACK-U1

■ Product Summary: FZ-3600-H5-U/-U1 is a glass fiber and mineral filled branched PPS compound with low outgassing compared to standard grades.

■ Color: Black

Engineering Properties

Properties	Test Method	Unit	Typical value
General Information			GF/Filler Low outgas
Physical			
Density Water absorption, 23°C/24Hrs.	ISO 1183-1 ISO 62	g/cm³ %	1.96 0.01
Mold shrinkage ^a	ISO 02 ISO 294-4	%	0.2/0.6
Mechanical			
Tensile strength Tensile modulus Tensile strain at break Flexural strength Flexural modulus	ISO 527-1,2 ISO 527-1,2 ISO 527-1,2 ISO 178 ISO 178	MPa GPa % MPa GPa	150 21.0 1.0 235 20.0
Flexural strain at flexural strength Charpy impact strength,	ISO 178	%	1.2
notched unnotched Co-eff. of friction ^b , static/dynamic	ISO 179/1eA ISO 179/1eU -	kJ/m² kJ/m² -	7 22 0.35/0.35
Thermal			
Temperature of deflection under load, 1.80MPa Co-eff. of linear thermal expansion ^a , -50~50 °C Co-eff. of linear thermal expansion ^a , 100~200 °C Flammability ^c /thickness (mm)	ISO 75-1,2 ISO 11359-2 ISO 11359-2 UL-94	°C x 10 ⁻⁵ /K x 10 ⁻⁵ /K -	275 1.5/2.5 1.5/7.0 V-0/0.40
Electrical			
Electric strength, t=1.0mm Relative permittivity, 1MHz Dielectric dissipation factor, 1MHz Comparative Tracking Index (CTI) Volume resistivity	IEC 60243-1 IEC 62631-2-1 IEC 62631-2-1 IEC 60112 IEC 62631-3-1	kV/mm - - V Ω∙cm	21 5 0.002 200 10 ¹⁶
Molding Condition			
Cylinder temperature Mold temperature	- -	°C	300-340 130-150

a: Flow direction/Transverse direction

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

c: UL file No. E53829