



Polyphenylene Sulfide

AMORVON W-30 BLACK-U

- Product Summary: W-30 BLACK-U is a 30% glass fiber reinforced, modified PPS compound with low warpage and low flash, and is suitable for use in applications where dimensional stability is required.
- Color: Black

Engineering Properties

Programming Total Model 110% T 1 1			
Properties	Test Method	Unit	Typical value
General Information			GF30% Precision molding
Physical			T recision molaling
Physical	100 4400 4	a./a.ma3	4.50
Density	ISO 1183-1	g/cm³	1.59
Water absorption, 23°C /24hrs.	ISO 62	%	0.18
Mold shrinkage ^a	ISO 294-4	%	0.4/0.8
Mechanical			
Tensile strength	ISO 527-1,2	MPa	155
Tensile modulus	ISO 527-1,2	GPa	12.5
Tensile strain at break	ISO 527-1,2	%	1.7
Flexural strength	ISO 178	MPa	240
Flexural modulus	ISO 178	GPa	12.0
Flexural strain at flexural strength	ISO 178	%	2.1
Charpy impact strength,			
notched	ISO 179/1eA	kJ/m²	8
unnotched	ISO 179/1eU	kJ/m²	32
Co-eff. of friction b, static/dynamic	-	-	0.35/0.35
Thermal			
Temperature of deflection under load, 1.80MPa	ISO 75-1,2	°C	215
Co-eff. of linear thermal expansion a, -50~50 °C	ISO 11359-2	x 10 ⁻⁵ /K	1.5/4.5
Co-eff. of linear thermal expansion a, 100~200 °C	ISO 11359-2	x 10 ⁻⁵ /K	1.5/9.0
Flammability ^c /thickness (mm)	UL-94	-	V-0/0.75
Electrical			
Electric strength, t=1.0mm	IEC 60243-1	kV/mm	25
Relative permittivity, 1MHz	IEC 62631-2-1	-	4
Dielectric dissipation factor, 1MHz	IEC 62631-2-1	-	0.007
Comparative Tracking Index (CTI)	IEC 60112	V	150
Volume resistivity	IEC 62631-3-1	$\Omega \cdot cm$	10 ¹⁶
Molding Condition			
Cylinder temperature	-	°C	300-340
Mold temperature	-	°C	130-150
a. Class diagratica /Tagagas and a diagratica			

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