

ABS-CF Filament

Technical Data Sheet

Features	Application
<ul style="list-style-type: none"> ● Impact modified ● High strength ● Low warpage ● Low water uptake 	<ul style="list-style-type: none"> ● Cultural and creative ● Toys ● Gifts ● Industrial

Physical	Typical Value	Unit	Method	Test Condition
Density	1.039	g/cm ³	ISO 1183	23°C
Melt Flow Rate	17	g/10min	ISO 1133	220/10KG

Mechanical	Typical Value	Unit	Method	Test Condition
Tensile Strength (XY)	35	MPa	ISO 527	50mm/min
Tensile Strength (XZ)	40	MPa	ISO 527	50mm/min
Tensile Strength (ZX)	16	MPa	ISO 527	50mm/min
Elongation at Break (XY)	2.3	%	ISO 527	50mm/min
Elongation at Break (XZ)	5.3	%	ISO 527	50mm/min
Elongation at Break (ZX)	1.2	%	ISO 527	50mm/min
Flexural Strength (XY)	61	MPa	ISO 178	5mm/min
Flexural Strength (XZ)	65	MPa	ISO 178	5mm/min
Flexural Strength (ZX)	24	MPa	ISO 178	5mm/min
Flexural Modulus (XY)	3071	MPa	ISO 178	5mm/min
Flexural Modulus (XZ)	2900	MPa	ISO 178	5mm/min
Flexural Modulus (ZX)	1135	MPa	ISO 178	5mm/min
Unnotched Izod Impact Strength (XY)	18	KJ/m ²	ISO 180	23°C
Unnotched Izod Impact Strength (XZ)	11	KJ/m ²	ISO 180	23°C
Unnotched Izod Impact Strength (ZX)	4.8	KJ/m ²	ISO 180	23°C

Thermal	Typical Value	Unit	Method	Test Condition
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Melting Temperature	/	°C	DSC	10°C/min
Heat Deflection Temperature	91	°C	ISO 75	120°C/h, 0.45MPa
Printing Temperature	220-260	°C	/	/
Bed Temperature	80-100	°C	/	/

Notice The data contained in this document is based on trials carried out by our Research Centers. Properties are dependent upon process conditions and machine used, so these figures are only given for information.