

ABS-FR0 filament Technical Data Sheet

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

Physical	Typical Value	Unit	Method	Test Condition
Density	1.18	g/cm ³	ASTM D1505	23°C
Melt Flow Rate	21	g/10min	ASTM D1238	220°C/10KG

Mechanical	Typical Value	Unit	Method	Test Condition
Tensile Strength	35	MPa	ASTM D638	50mm/min
Elongation at Break	10	%	ASTM D638	50mm/min
Flexural Strength	65	MPa	ASTM D790	5mm/min
Flexural Modulus	2280	MPa	ASTM D790	5mm/min
Notched Izod Impact Strength	220	J/m	ASTM D256	23°C
Hardness	87	Shore D	ASTM D2240	15s

Thermal	Typical Value	Unit	Method	Test Condition
Melting Temperature	/	°C	DSC	10°C/min
Printing Temperature	220-260	°C	/	/
Viscat Softening Temperature	101	°C	ASTM D1525	50°C/h, 10N

Flame retardation	Typical Value	Unit	Method	Test Condition
Flame retardation 3.2mm	V0	Level	UL 94	/
Flame retardation 1.6 mm	V0	Level	UL 94	/

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.