

200FR

200FR is injection grade and flame retardant ASA resin. It has high weather resistance properties and heat resistance properties and UV resistance properties. 200FR is mainly used in satellites antenna box, electric control box, storage cell housing, automatic irrigate machine housing, vehicle scuttle, etc.

Properties	Standard	Unit	Condition	Typical Value
Physical				
Density	ASTM D792	g/cm ³		1.17
Melt Index	ASTM D1238	g/10min	220℃×10kg	45
Mold Shrinkage	ASTM D955	%		0.3~0.6
Mechanical				
Tensile Strength	ASTM D638	MPa		45
Tensile Elongation at Break	ASTM D638	%		20
Flexural Strength	ASTM D790	MPa		60
Flexural Modulus	ASTM D790	MPa		2000
Notched Izod Impact, 3.2mm	ASTM D256	J/m	3.2mm, Notched	150
Thermal				
Heat Deflection Temp. 1.82MPa Unannealed	ASTM D648	℃	1.82MPa	76
VICAT	ASTM D1525	℃	B	85
Flammability				
Flammability	UL-94	Class	1.6mm	V-0
Electrical Properties				
Volume Resistivity	IEC 60093	Ohm-cm	/	> 1.0E+14
Surface Resistivity	IEC 60093	Ohm	/	> 1.0E+14

Note1) These are typical property values, not specifications.

2) In case of colored products, the values could vary slightly by color.

3) Values are measured at 23℃ and in RH of 50% on injection molded specimens.

4) UL File No. E65424,E254819.

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Processing Parameters	Typical Value	Unit
Drying Temperature	80~90	℃
Drying Time	2~3	hour
Maximum moisture content	0.05	%
Barrel Temperature		
Rear	190~200	℃
Middle	190~210	℃
Front	190~210	℃
Nozzle	190~210	℃
Melt Temperature	200~220	℃
Mold Temperature	40~80	℃
Back Pressure	1~5	MPa
Screw Speed	30~60	rpm

Note:

1)The above data is only for reference. Exact settings have to follow the product,injection machine and mold.

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