

FR500

Description

FR-500 is a TBBA Flame Retardant ABS product for injection molding, designed to have a flammability rating of V-0 at 2.0mm

Key Features

Flame Retardancy, Imflammability

Application

Electrical/Electronic Products

Plant

China(Ningbo)

Properties	Condition	Method	Unit	FR500
Physical				
Melt Flow Index	220°C, 10kg	ASTM D1238	g/10min	50
Mechanical				
Tensile Strength at Yield	23°C, 50mm/min, 3.2mm	ASTM D638	MPa	43
Flexural Strength	23°C, 10mm/min, 6.4mm	ASTM D790	MPa	67
Flexural Modulus	23°C, 10mm/min, 6.4mm	ASTM D790	MPa	2300
Izod Impact Strength	Notched, 6.4mm, 23°C	ASTM D256	J/m	20
Rockwell Hardness	R-Scale	ASTM D785		100
Thermal				
Heat Deflection Temperature	Edgewise, 1.82MPa, 6.4mm, Annealed	ASTM D648	°C	75

Note

Typical values can be used only for the purpose of selecting material, and there can be variation within normal tolerances for various colors.

Values given should not be interpreted as specification and not be used for designing part or tool.

All properties, except melt flow index are measured by injection molded specimens after 48 hours storage at 23°C, 50% relative humidity.

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Processing Guide (Injection Molding)

Processing Parameters	Unit	Value
Drying Temperature	°C	75~85
Drying Time	hrs	2~4
Injection Temperature	°C	180~240
Mold Temperature	°C	40~80
Screw Speed	rpm	30~60

Note

Injection Temperature & Screw Speed are only mentioned as general guidelines.

These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding.