SolutionPartner

LG Chem

AF365

Description

AF365 is a Flame Retardant ABS product for injection molding, designed to have a flammability rating of V-0 at 2.0mm.

Key Features

Flame Retardancy

Application

Batter Case, PCB Case, Electrical/Electronic Products

Properties	Condition	Method	Unit	AF365
Physical				
Specific Gravity	23℃	ASTM D792		1.16
Mold Shrinkage	23℃, 3.2mm	ASTM D955	%	0.4 ~ 0.7
Melt Flow Index	220℃, 10kg	ASTM D1238	g/10min	30
Mechanical				
Tensile Strength at Yield	23℃, 50mm/min, 3.2mm	ASTM D638	MPa	46
Tensile Elongation at Yield	23℃, 50mm/min, 3.2mm	ASTM D638	%, (Min)	5
Tensile Elongation at Break	23℃, 50mm/min, 3.2mm	ASTM D638	%, (Min)	15
Flexural Strength	23℃, 10mm/min, 6.4mm	ASTM D790	MPa	77
Flexural Modulus	23℃, 10mm/min, 6.4mm	ASTM D790	MPa	2650
Izod Impact Strength	Notched, 3.2mm, 23℃	ASTM D256	J/m	230
Izod Impact Strength	Notched, 6.4mm, 23℃	ASTM D256	J/m	170
Rockwell Hardness	R-Scale	ASTM D785		108
Thermal				
Heat Deflection Temperature	Edgewise, 1.82MPa, 6.4mm, Unannealed	ASTM D648	℃	86
Flammability	1.7mm	UL 94		V-1
Flammability	2.0mm	UL 94		V-0, 5VA
Flammability	2.5mm	UL 94		V-0, 5VA
Flammability	3.0mm	UL 94		V-0, 5VA

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℃, 50% relative humidity.

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Processing Guide (Injection Molding)

Processing Parameters	Unit	Value
Drying Temperature	℃	70 ~ 80
Drying Time	hrs	3 ~ 4
Injection Temperature	℃	200 ~ 240
Mold Temperature	℃	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.