

Shuman ABS SP791

Acrylonitrile Butadiene Styrene

Shuman Plastics, Inc.

Message:

ABS FLAME RETARDANT SP791 BLACK AND CUSTOM COLORS (LONG TERM THERMAL AGING RATED)
OFFERS THIS COMBINATION OF PROPERTIES:
EXCELLENT FLAME RETARDANCY, GOOD IMPACT STRENGTH, GOOD CHEMICAL RESISTANCE, SELF EXTINGUISHING, LTHA, UL

General Information			
UL YellowCard	E80143-250599		
Features	Impact resistance, good		
	Good heat aging resistance		
	Good chemical resistance		
	Self-extinguishing		
	Flame retardancy		
Appearance	Black		
	Available colors		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	1.2	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	44.8	MPa	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	210	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	9.3E-5	cm/cm/°C	ASTM D696
RTI Elec	80.0	°C	UL 746
RTI Imp	70.0	°C	UL 746
RTI	80.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (CTI) (2.54 mm)	250	V	UL 746
High Amp Arc Ignition (HAI) (2.54 mm)	199		UL 746

High Voltage Arc Tracking Rate (HVTR) (2.54 mm)	149	mm/min	UL 746
Hot-wire Ignition (HWI) (2.57 mm)	33	sec	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating (2.54 mm)	V-1		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	87.8 - 93.3	°C	
Drying Time	2.0 - 24	hr	
Processing (Melt) Temp	204 - 227	°C	
Injection instructions			
Tray Dryer Drying Temperature, No Standard, 1.5 in: 170 to 200°F Tray Dryer Drying Time, No Standard, 1.5 in: 4 to 24hrs			
Extrusion	Nominal Value	Unit	
Drying Temperature	87.8 - 93.3	°C	
Drying Time	2.0 - 24	hr	
Melt Temperature	177 - 216	°C	
Extrusion instructions			
Tray Dryer Drying Temperature, No Standard, 1.5 in: 170 to 200°F Tray Dryer Drying Time, No Standard, 1.5 in: 4 to 24hrs			

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