

Shuman 791 Black and Custom Colors ABS-Flame Retardant

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), Unreinforced, Flame Retardant

Material Notes:

Long term thermal aging rated. Excellent flame retardancy, good impact strength, good chemical resistance, good wear and abrasion resistance. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Shuman-791-Black-and-Custom-Colors-ABS-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Melt Flow	1.2 g/10 min	1.2 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength, Yield	45.0 MPa	6530 psi	ASTM D638
Izod Impact, Notched	2.14 J/cm	4.01 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	93.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	51.7 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
UL RTI, Electrical	80.0 $\text{Å}^\circ\text{C}$	176 $\text{Å}^\circ\text{F}$	UL746-B
UL RTI, Mechanical with Impact	70.0 $\text{Å}^\circ\text{C}$	158 $\text{Å}^\circ\text{F}$	UL746-B
UL RTI, Mechanical without Impact	80.0 $\text{Å}^\circ\text{C}$	176 $\text{Å}^\circ\text{F}$	UL746-B
Flammability, UL94	V-1	V-1	UL94
	@Thickness 2.54 mm	@Thickness 0.100 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	250 V	250 V	UL 746A
Hot Wire Ignition, HWI	33.4 sec	33.4 sec	UL746A
High Amp Arc Ignition, HAI	199.4 arcs	199.4 arcs	UL746A
High Voltage Arc-Tracking Rate, HVTR	149.0 mm/min	5.866 in/min	UL746A

Processing Properties	Metric	English	Comments
Processing Temperature	177 - 216 Â°C	351 - 421 Â°F	Extrusion
	204 - 227 Â°C	399 - 441 Â°F	Injection

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