

SHUMAN COMPOUND: DATA SHEET

DESCRIPTION: ABS FLAME RETARDANT SP790 BLACK AND CUSTOM COLORS

OFFERS THIS COMBINATION OF PROPERTIES:

EXCELLENT FLAME RETARDANCY, GOOD IMPACT STRENGTH, GOOD CHEMICAL RESISTANCE, SELF EXTINGUISHING, UL

TYPICAL PROPERTIES

MECHANICAL PROPERTIES

	<u>VALUE</u>	<u>UNITS</u>	<u>TEST METHODS</u>
IZOD IMPACT STRENGTH (NOTCHED, 1/8" THICK SPECIMEN)	4.0	FT-LBS/IN	ASTM D-256
TENSILE STRENGTH AT YIELD	6500	PSI	ASTM D-638
ROCKWELL HARDNESS	105	R	ASTM D-785

THERMAL PROPERTIES

COEFFICIENT OF LINEAR THERMAL EXPANSION	9.3X10-5	IN/IN °C	ASTM D-696
HOT WIRE IGNITION (HWI) 0.101" THICK SPECIMEN	33.4	SEC. TO IGNITE	UL 746A
HIGH CURRENT ARC IGNITION (HAI) 0.100" THICK SPECIMEN	199.4	ARCS	UL 746A
HIGH VOLTAGE ARC TRACKING (HVTR) 0.100" THICK SPECIMEN	5.873	IN/MIN.	UL 746A
COMPARATIVE TRACK INDEX (CTI) 0.100" THICK SPECIMEN	250	VOLTS	UL 746A

FLAME-RETARDANT PROPERTIES

FLAME CLASS RATING 0.100" (2.54 mm) THICK SPECIMEN	V0		UL 94
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OTHER PROPERTIES

SPECIFIC GRAVITY	1.2		ASTM D-792
MELT FLOW RATE	1.2	GM/10 MIN.	ASTM D-1238

SUGGESTED DRYING CONDITIONS:

	<u>TEMPERATURE °F</u>		<u>TIME (HOURS)</u>	
	<u>MIN.</u>	<u>MAX.</u>	<u>MIN.</u>	<u>MAX.</u>
DEHUMIDIFYING DRYER	190	200	2	24
TRAY DRYER NOTE: DEPTH OF GRANULES IN TRAY DRYER SHOULD NOT EXCEED 1½ IN. (38.1 mm)	170	200	4	24

SUGGESTED PROCESSING CONDITIONS:

INJECTION: 400° - 440°F
EXTRUSION: 350° - 420°F

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