

# SHUMAN COMPOUND: DATA SHEET

**DESCRIPTION: PPO FLAME RETARDANT, SP211 BLACK, CUSTOM COLORS**

**OFFERS THIS COMBINATION OF PROPERTIES:**

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

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## TYPICAL PROPERTIES

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**MECHANICAL PROPERTIES**

	<u>VALUE</u>	<u>UNITS</u>	<u>TEST METHODS</u>
IZOD IMPACT STRENGTH (NOTCHED, 1/8" THICK SPECIMEN)	3.0	FT-LBS/IN	ASTM D-256
TENSILE STRENGTH	6800	PSI	ASTM D-638
ROCKWELL HARDNESS	116	R	ASTM D-785

**THERMAL PROPERTIES**

HEAT DEFLECTION TEMPERATURE @ 264 PSI	195	°F	ASTM D-648
VICAT SOFTENING TEMPERATURE	260	°F	ASTM D-1525

**FLAME-RETARDANT PROPERTIES**

FLAME CLASS RATING 0.125" (3.18mm) THICK SPECIMEN	5VA	UL 94
FLAME CLASS RATING 0.062" (1.57mm) THICK SPECIMEN	V0	UL 94

**OTHER PROPERTIES**

SPECIFIC GRAVITY	1.1		ASTM D-792
MELT FLOW RATE	1.5	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	180	220	2	4
TRAY DRYER NOTE: DEPTH OF GRANULES IN TRAY DRYER SHOULD NOT EXCEED 1½ IN. (38.1mm)	180	220	2	4

**SUGGESTED PROCESSING CONDITIONS:**

**EXTRUSION:** 380° - 430°

**INJECTION:** 430° - 500°

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