

# SHUMAN COMPOUND: DATA SHEET

**DESCRIPTION: PC/ABS ALLOY FLAME RETARDANT FR310 UTILITY BLACK,  
FR380 GREY (FORMERLY FR705)**

**OFFERS THIS COMBINATION OF PROPERTIES: EXCELLENT FLAME RETARDANCY,  
GOOD IMPACT STRENGTH, EASY PROCESSABILITY, GOOD SURFACE GLOSS, GOOD CHEMICAL  
RESISTANCE, SELF EXTINGUISHING**

---

## TYPICAL PROPERTIES

---

<u>MECHANICAL PROPERTIES</u>	<u>VALUE</u>	<u>UNITS</u>	<u>TEST METHODS</u>
IZOD IMPACT STRENGTH (NOTCHED, 1/8" THICK SPECIMEN)	9 (+/-1.5)	FT-LBS/IN	ASTM D-256
TENSILE STRENGTH	7,000 (+/-1000)	PSI	ASTM D-638
FLEX MODULUS	350,000 (+/-30,000)	PSI	ASTM D-790

### FLAME RETARDANT PROPERTIES

FLAME CLASS RATING .125" (3.2MM) THICK SPECIMEN	V0		UL * PROVISIONAL RATING
--	----	--	----------------------------

### OTHER PROPERTIES

SPECIFIC GRAVITY	1.13		ASTM D-792
MELT FLOW RATE	7 (+/-3)	GM/10 MIN. (I)	ASTM D-1238

### SUGGESTED DRYING CONDITIONS:

	<u>TEMPERATURE °F</u>		<u>TIME (HOURS)</u>
	<u>MIN.</u>	<u>MAX.</u>	
DEHUMIDIFYING DRYER	175°	230°	3 – 4 HOURS

**SUGGESTED PROCESSING CONDITIONS: 460° - 530°F**

---

NOTICE: THE INFORMATION CONTAINED HEREIN IS BASED ON WHAT WE BELIEVE TO BE RELIABLE DATA, BUT SHUMAN MAKES NO WARRANTIES EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. BECAUSE SHUMAN HAS NO CONTROL OVER THE USE TO WHICH OTHERS MAY PUT THE PRODUCT, IT DOES NOT SUGGEST OR REPRESENT THAT THE SAME RESULTS AS THOSE REFERRED TO HEREIN WILL BE OBTAINED BY ANOTHER USER. EACH USER OF THE PRODUCT AND THE COMPOSITIONS MENTIONED HEREIN SHOULD MAKE HIS OWN TESTS PRIOR TO PURCHASE TO DETERMINE THE PRODUCT'S SUITABILITY FOR HIS OWN PARTICULAR USES.

NOTHING CONTAINED HEREIN IS TO BE CONSTRUED AS A RECOMMENDATION FOR THE USE IN VIOLATION OF ANY EXISTING PATENT, FOREIGN OR DOMESTIC, OR OF APPLICABLE LAWS AND REGULATIONS.

REV01/03

DATA SHOWN ARE THE AVERAGE RESULTS OF OUR OWN TESTS AND SHOULD NOT BE USED FOR SPECIFICATIONS

---