

# SHUMAN COMPOUND: DATA SHEET

**DESCRIPTION: POLYSTYRENE HIGH IMPACT SP810 BLACK, SP880 GREY**

**OFFERS THIS COMBINATION OF PROPERTIES:**

GOOD IMPACT STRENGTH, EASY PROCESSABILITY, GOOD SURFACE APPEARANCE, UL

---

---

## TYPICAL PROPERTIES

---

---

### MECHANICAL PROPERTIES

	<u>VALUE</u>	<u>UNITS</u>	<u>TEST METHODS</u>
IZOD IMPACT STRENGTH (NOTCHED, 1/8" THICK SPECIMEN)	1.8 MIN.	FT-LBS/IN	ASTM D-256
TENSILE STRENGTH	4404	PSI	ASTM D-638
ROCKWELL HARDNESS	60	L	ASTM D-785

### THERMAL PROPERTIES

HEAT DEFLECTION TEMPERATURE @ 264 PSI	167	°F	ASTM D-648
VICAT SOFTENING TEMPERATURE	207	°F	ASTM D-1525
COEFFICIENT OF LINEAR THERMAL EXPANSION	4.42 x 10 <sup>-5</sup>	IN/IN/°F	ASTM D-696

### FLAME-RETARDANT PROPERTIES

FLAME CLASS RATING 0.062" (1.57 mm) THICK SPECIMEN	94HB		UL 94
---	------	--	-------

### OTHER PROPERTIES

SPECIFIC GRAVITY	1.05		ASTM D-792
MELT FLOW RATE (RANGES)	6 (+/-2) 8 (+/-2) 10 (+/-2)	GM/10 MIN.	ASTM D-1238

**SUGGESTED PROCESSING CONDITIONS:** 400° - 440°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

---