

# SHUMAN COMPOUND: DATA SHEET

**DESCRIPTION:** POLYSTYRENE HIGH IMPACT 810 BLACK, 880 GREY

**OFFERS THIS COMBINATION OF PROPERTIES:**  
GOOD IMPACT STRENGTH, EASY PROCESSABILITY, GOOD SURFACE APPEARANCE

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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)	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

### 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

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