

# **TECHNICAL DATA SHEET**

# Shuman Compound:

Polycarbonate SP910 Utility Black, SP920 Black, SP980 Grey, SP930 White, and Custom Colors

## Offers this combination of properties:

UL recognized, Good impact strength, Easy processability, Good surface gloss, Good heat resistance, Excellent weatherability, Excellent color stability, Self-extinguishing

MECHANICAL PROPERTIES Izod Impact Strength (Notched, 1/8" Thick Specimen)	<u>VALUE</u> 12	<u>UNITS</u> FT-LBS/IN	TEST METHODS ASTM D-256				
Rockwell Hardness	70	M	ASTM D-785				
Tensile Strength	9500	PSI	ASTM D-638				
THERMAL PROPERTIES							
Heat Deflection Temperature @ 264 PSI	262	deg. F	ASTM D-648				
Vicat Softening Temperature	310	deg. F	ASTM D-1525				
FLAME RETARDANT PROPERTIES							
Flame Class Rating 0.062" (1.57 mm) Thick Specimen	V2		UL 94				
Flame Class Rating, Weather Exposure	*F1						
0.062" (1.57 mm) Thick Specimen	V2		UL 746 C				
*F1- Suitable for outdoor use with respect to exposure to ultraviolet light, water exposure, and immersion in accordance with UL 746 C.							

**TYPICAL PROPERTIES** 

### OTHER PROPERTIES

Specific Gravity Melt Flow Rate	1.2 10 (+/-2) 15 (+/-2) 20 (+/-2)	GM/10 MIN. GM/10 MIN. GM/10 MIN	ASTM D-792 ASTM D-1238
	20 (+/-2)	GM/10 MIN.	

DRYING CONDITIONS:		TEMPERATURE (deg. F)		TIME (HOURS)		
		MIN.	<u>MAX.</u>	<u>MIN.</u>	MAX.	
Dehumidifyir	ng Dryer	250	260	2-3	24	
Tray Dryer	NOTE: Depth of granules in tray dryer should not exceed 1 in. (25.4 mm)	250	260	4-6	24	

#### **TEMPERATURE CONDITIONS:**

510-550F

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