

SHUMAN COMPOUND: DATA SHEET

DESCRIPTION: POLYCARBONATE SP910 UTILITY BLACK, SP920 BLACK, SP980 GREY, SP930 WHITE AND CUSTOM COLORS

OFFERS THIS COMBINATION OF PROPERTIES:

GOOD IMPACT STRENGTH, EASY PROCESSABILITY, GOOD SURFACE GLOSS, GOOD HEAT RESISTANCE, EXCELLENT WEATHERABILITY, EXCELLENT COLOR STABILITY, SELF EXTINGUISHING, UL

TYPICAL PROPERTIES

<u>MECHANICAL PROPERTIES</u>	<u>VALUE</u>	<u>UNITS</u>	<u>TEST METHODS</u>
IZOD IMPACT STRENGTH (NOTCHED, 1/8" THICK SPECIMEN)	12	FT-LBS/IN	ASTM D-256
TENSILE STRENGTH	9500	PSI	ASTM D-638
ROCKWELL HARDNESS	70	M	ASTM D-785

THERMAL PROPERTIES

HEAT DEFLECTION TEMPERATURE @264 PSI	262	°F	ASTM D-648
VICAT SOFTENING TEMPERATURE	310	°F	ASTM D-1525

FLAME-RETARDANT PROPERTIES

FLAME CLASS RATING 0.062" (1.57 MM) THICK SPECIMEN	V 2		UL 94
FLAME CLASS RATING, WEATHER EXPOSURE 0.062" (1.57 MM) THICK SPECIMEN	*F1 V 2		UL 746 C
*F1-SUITABLE FOR OUTDOOR USE WITH RESPECT TO EXPOSURE TO ULTRAVIOLET LIGHT, WATER EXPOSURE AND IMMERSION IN ACCORDANCE WITH UL 746C.			

OTHER PROPERTIES

SPECIFIC GRAVITY	1.2		ASTM D-792
MELT FLOW RATE	15-25	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	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

SUGGESTED PROCESSING CONDITIONS: 510° - 550°F

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