



FPC 5805

FPC 5805 is designed for 30 mil and heavier U. L. appliance wire insulation, 90°C CSA TR 64 radio device insulation and 30 mil and heavier CSA equipment wiring.

PHYSICAL PROPERTIES

<u>Characteristic</u>	<u>Test Method</u>	<u>Value</u>
Specific Gravity	ASTM D-792	1.39
Hardness, Shore Durometer, Instantaneous	ASTM D-2240	93A
Tensile Strength, psi (20 A.W.G., 30 mil wall)	ASTM D-412	3000
Modulus at 100% Elongation, psi	ASTM D-412	1800
Ultimate Elongation, %	ASTM D-412	290

ELECTRICAL PROPERTIES

Volume Resistivity at 60°C ($\times 10^{12}$ ohm-cm) 50 mil plaque	ASTM D-257	35
Insulation Resistance (megohms/M ft.) (20 A.W.G., 30 mil wall)	UL 758-23°C dry CSA TR-64, 90°C dry-24 hrs. UL 758 - 113°C dry-24 hrs. UL 758-113°C dry-168 hrs.	2000 4.6 0.3 0.78

THERMAL PROPERTIES

Heat Aging-Retention Orig. Elongation, % (20 A.W.G., 15 mil wall)	14 days at 121°C	84
Heat Aging-Retention Orig. Elongation, % (20 A.W.G., 30 mil wall)	7 days at 136°C 21 days at 136°C	74 74
Oil Resistance-Retention Orig. Elongation, %	4 hrs. at 100°C	88
Brittleness Temperature, °C	ASTM D-746	-19

Suggested Stock Extrusion Temperature range: 360-380°F
ASTM Classification: ASTM D-2287 - Type 65704E20
Suggested Applications: 30 mil UL 105°C A.W.M., 30 mil CSA 105°C TEW,
CSA 90°C TR-64

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