

Caprolan-RC[®]

A NYLON 6 PRODUCT FROM **Honeywell**

Honeywell

Engineering Data Report #2

Fiber Specification

TYPICAL PROPERTIES OF CAPROLAN-RC[®] FIBERS

Material: 100% Nylon 6

Filament Diameter.....	30 Microns	Acid and Salt Resistance.....	Good
Filaments/lb.	33 Million	Alkali Resistance.....	Excellent
Specific Gravity.....	1.14	Ultra Violet Resistance.....	Excellent
Fiber Length.....	3/4 inch	Electrical Conductivity.....	Low
Tensile Strength.....	45 ksi	Thermal Conductivity.....	Low
Water Absorption /Concrete.....	0.72 oz/yd ³	Concrete Surface.....	Non Hairy
Melting Point.....	428 °F (220 °C)	Concrete Air Entrainment.....	No Effect

PROPERTIES OF CAPROLAN-RC[®] REINFORCED CONCRETE

Dosage Rate: 1 lb/yd³

Plastic Shrinkage Cracking	69% Improvement*
Impact Strength (ACI Committee 544)	100% Improvement*
Compressive Strength (ASTM C39)	10% Improvement*
Splitting Tensile Strength (ASTM C496)	8% Improvement*
Flexural Strength (ASTM C78)	10% Improvement*
Flexural Toughness (ASTM C1018)	Meets all ASTM C1116 requirements

*Compared to unreinforced control.

CAPROLAN-RC FIBERS ARE APPROVED BY THE COUNCIL OF AMERICAN BUILDING OFFICIALS, NER REPORT # 433.

CAPROLAN-RC FIBERS COMPLY WITH THE MATERIAL SPECIFICATIONS AND PERFORMANCE REQUIREMENTS SET FORTH IN ASTM C1116, "STANDARD SPECIFICATION FOR FIBER-REINFORCED CONCRETE AND SHOTCRETE."

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