General Description

VHR-115 is a dense, rigid material produced in multi-ply construction from unbleached Kraft pulp and an acrylic polymer. It has excellent dielectric and mechanical strengths, low water absorption, and is essentially free to conducting particles, chemical impurities and foreign matter. Its chemical cleanliness accounts for its excellent aging characteristics in air up to 115° C.

VHR-115 can be used in numerous coil, transformer, motor, electrical hardware and electronics applications where excellent dielectric and physical strengths are required.

VHR-115 is approved by Underwriters Laboratories Reference E-31556 (M) electrical use at 115°C and mechanical at 110° C. UL94-HB

PROPERTIES	UNITS	VALUE
Fiber Content		100% Unbleached Kraft Wood Pulp
Ash Content (Max)	%	.75%
pH Water Extract	%	6.5 – 7.5%
Moisture Content	%	7.0% average
Water Absorption	% change in weight	2 hours 50% 24 hours 60%

Standard Thickness ± 7%	**Inches**	**.010**	**.015**	**.020**	**.025**	**.031**	**.062**
Apparent Density (air dry)	G/CC	1.05	1.05	1.05	1.05	1.05	1.05
Weight (air dry)	lbs/sq ft	.054	.082	.109	.136	.169	.338
Dielectric Strength (avg) air AC 25° C	Volts/mil	250	250	250	250	250	250
Tensile Strength (avg)	MD lbs/in	200	305	425	540	660	
	CMD lbs/in	35	60	75	95	110	
Burst Strength (avg)	lbs/sq in	150	250	375	460	550	900
Tear Strength (avg)	MD	255	450	615	830	950	
	CMD	425	740	900	1000	1000+	

MATERIAL SPECIFICATION
VHR - 115

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