Varflex
ELECTRICAL INSULATING SLEEVING
Phone (315) 336-4400
Toll Free 1-800-648-4014
e-mail: sales@varflex.com
www.varflex.com

Varglas A397 and 343 Acrylic Sleeving

Acrylic Coated Fiberglass Sleeving

Class 155 (-25°C to +155°C) (-13°F to +311°F)

Description

Varglas A397 and 343 Acrylic Sleevings are produced by curing a modified acrylic resin on a continuous fiberglass braid, with A397 Acrylic best characterized by its flexibility. Both are resistant to most acids, organic solvents, oils and water and exhibit fair resistance to alkalies. They are compatible with modified polyester, acrylic, epoxy, phenolic and formvar wire enamels and are designed to perform for long periods in a 155°C range without loss of any electrical or physical properties.

Specifications

Both Varglas A397 and 343 Acrylic Sleevings conform to, and are listed on the Qualified Products List (QPL) for, MIL-I-3190/3, latest revision (Grade A); NEMA TF-I, Type 6; and ASTM- D372.

Under the Component Program of Underwriters Laboratories, both Varglas A397 and 343 Acrylic Sleevings in Grade A are recognized for 155°C, 600 volt service under UL File #E63450. CSA International certifies the use of both sleevings in Grade A for 155°C, 600 volt service under CSA File #LR58486. They also are recognized in systems work, per UL Safety Standard 1446, to facilitate product acceptance by UL. Additionally, Grade C-3 Acrylic complies with UL's VW-I flammability requirements under UL File #E53690.

Applications

Varglas A397 and 343 Acrylic Sleevings are used to insulate leads and crossovers in fractional and integral horsepower motors. They also are used in dry and oil-filled transformers, generators and other moisture-sensitive equipment, as well as in home appliances, lighting fixtures, instrument circuits and controls. Additional uses include switchgear, breaker panels, welding equipment and other commercial apparatus subjected to continuous operating temperatures of 155°C, particularly those requiring insulation system compatibility.

Sizes

AWG #24 through 2" I.D. Other sizes subject to inquiry

Standard Color

Natural. Other colors made to order.

Standard Packaging

Coils, spools or 36" lengths at manufacturer's option, unless otherwise specified. There is no cutting charge for 36" lengths, but lengths other than 36" are subject to cutting charges. Sizes over 1" I.D. are generally supplied in 36" lengths.

Varglas A397 and 343 Acrylic Sleeving

Property	Procedure	Performance
Physical		
Tensile Strength, Coating	ASTM-D412	850 psi
Ultimate Elongation, Coating	ASTM-D412	150% @ 20°C
Tear Strength, Coating	ASTM-D624	60 psi
Flexibility and Toughness, Coating	UL 1441	Passes (Penetration Test)
Chemical		
Oil and Solvent Resistance	MIL-I-3190/3	Passes (Good)
Resistance to Acids and Alkalies	—	Good
Corrosion Resistance	—	Good. Contains no chlorine or other materials contributing to electrolyte formation.
Compatibility	UL 1446	Good. Compatible with modified polyester, acrylic, epoxy, phenolic and formvar wire enamels.
Electrical		
Dielectric Strength after 48/23/50:		
Grade A	NEMA TF - 1	7000v min. avg., 5000v min. indiv.
Grade B	NEMA TF - 1	4000v min. avg., 2500v min. indiv.
Grade C - 1	NEMA TF - 1	2500v min. avg., 1500v min. indiv.
Grade C - 2	NEMA TF - 1	1500v min. avg., 800v min. indiv.
Grade C - 3	NEMA TF - 1	No voltage guarantee.
Dielectric Strength after 96/23/96:		
Grade A	NEMA TF - 1	50% of Original Value.
Hydrolytic Stability after 336 hrs. @ 70°C over Constant Water Reflux	MIL-I-3190/3	1500 volts min. avg.
Thermal		
Thermal Endurance	MIL-I-3190/3 & UL 1441	Class 155°C (F)
Brittleness Temperature	ASTM-D350	- 25°C
Flame Resistance	ASTM-D350, Method B	Passes
	NEMA TF-1	Passes
	MIL-I-3190/3, Method B	Passes
	UL 1441	Passes (VW - 1), Grade C3 only.
Resistance to Potting Temperature	MIL-I-3190/3	No blisters, flow or cracks visible after 15 min. @ 225°C.

Note:

Information contained here is precise and reliable. However, being unique, each end-use should be evaluated to satisfy its specific requirements.

Varflex
Electrical Insulating Sleeving
Varflex Corporation, 512 West Court Street, Rome, NY • e-mail: sales@varflex.com
Phone (315) 336-4400 • Fax (315) 336-0005 • Toll Free 1-800-648-4014 • www.varflex.com