

Rolled and Molded Rod Products - Property Comparison

			RM130	RM500A	RM504	RM505	RM511A	RM310	RM310E	RM315
			Glass Fabric					Cotton (Canvas)		
			Epoxy		Phenolic	Melamine	Epoxy	Phenolic		Phenolic - Graphite
PHYSICAL PROPERTIES										
Specific Gravity (0.500 OD)		-	1.84	1.85	1.79	1.95	1.85	1.34	1.34	1.35
Rockwell Hardness (0.500" OD)		M Scale	105	110	110	110	110	90	90	90
Moisture Absorption (0.500" OD)	Condition D ₁ -24/23	%	0.03	0.08	0.04	0.70	0.08	0.90	0.90	0.82
Flexural Strength (0.500" OD)	Condition A	Axial psi	65,200	85,300	59,700	54,500	85,300	18,400	18,400	18,500
Tensile Strength (0.500" OD)	Condition A	Axial psi	41,200	55,900	37,000	32,300	55,900	8,900	8,900	9,600
Compressive Strength (0.500" OD)	Condition A	Axial psi	52,600	73,600	68,000	60,900	73,600	28,600	28,600	28,400
THERMAL PROPERTIES										
Temperature Index ¹	Electrical / Mechanical	°C	120 / 130	170 / 220	140 / 170	120 / 140	170 / 180	115 / 125	115 / 125	115 / 125
Flammability Rating U.L. 94	Condition A	Class	V-0	HB	HB	V-0	HB	HB	HB	HB

NOTE a: A double dash (--) indicates that the value has not been determined or is not applicable to the product.

NOTE b: All testing per ASTM D348 unless otherwise noted.

¹ NEMA LI-6: This temperature is a recommendation only and is based upon experience in various applications. The maximum operating temperature is dependent upon the application and should be investigated prior to use.



Global Thermoset Composite Solutions

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			RM320	RM320LE	RM326	RM329	RM629	RM630
			Cotton (Fine Weave Linen)				Paper	
			Phenolic		Epoxy	Melamine	Phenolic	
PHYSICAL PROPERTIES								
Specific Gravity (0.500 OD)	-		1.35	1.35	1.35	1.39	1.40	1.40
Rockwell Hardness (0.500" OD)	M Scale		80	80	100	89	100	100
Moisture Absorption (0.500" OD)	Condition D ₁ -24/23	%	0.85	0.85	0.51	2.20	0.58	0.58
Flexural Strength (0.500" OD)	Condition A	Axial psi	20,100	20,100	22,000	18,000	20,800	20,800
Tensile Strength (0.500" OD)	Condition A	Axial psi	9,400	9,400	15,000	9,200	15,300	15,300
Compressive Strength (0.500" OD)	Condition A	Axial psi	29,000	29,000	29,900	28,500	27,900	27,900
THERMAL PROPERTIES								
Temperature Index ¹	Electrical / Mechanical	°C	115 / 125	115 / 125	115 / 125	115 / 125	140 / 140	140 / 140
Flammability Rating U.L. 94	Condition A	Class	HB	HB	HB	V-1	HB	HB

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