Product Information

ESC-comp™ V-100, V-131A, V-333A, V-111 Laminate Composite Compounds

Property	Test Method	Units	V-131A COMPOSITE MATERIAL Value	V-333A COMPOSITE MATERIAL Value	V-100 COMPOSITE MATERIAL Value	V-111 COMPOSITE MATERIAL Value
Tensile Strength	**ASTM D638**	**MPa (psi)**	**75 (11,000)**	**75 (11,000)**	**(7,800-8,300)**	**(7,800-8,300)**
Tensile Elongation	ASTM D638	%				
Tensile Modulus	ASTM D638	MPa (psi)				
Flexural Strength	ASTM D790	MPa (psi)				
Flexural Modulus	ASTM D638	Map (psi)	3,240 (470,000)	3,240 (470,000)	(480,000)	(480,000)
Shear Strength	ASTM D2344	psi	83 (12,000)	83 (12,000)	83 (12,000)	83 (12,000)
Compressive Strength	**ASTM D695**	**MPa (psi)**				
Normal to laminate	**ASTM D695**	**psi**	**345 (50,000)**	**345 (50,000)**	**345 (50,000)**	**345 (50,000)**
Parallel to laminate	**ASTM D695**	**psi**	**93 (13,500)**	**93 (13,500)**	**(14,500)**	**(14,500)**
Impact Strength		MPa (psi)				
Notched 1/8"	ASTM D256	J/m (ft-lb/in)				
Un-notched 1/8"	ASTM D256	J/m (ft-lb/in)				
Hardness, Rockwell	ASTM D785	R	M100	M100	M100	M100
Specific Gravity	ASTM D792		.047 lb./in sq.	.047 lb./in sq.	.048 lb./in sq.	.048 lb./in sq.
Water Absorption 24 hrs. @ 73 F (23 C)	**ASTM D570**	**%**	**<0.1**	**<0.15**	**<0.1**	**<0.1**
Coefficient of Friction DRY (Dynamic)			0.15-0.2	0.15-0.2	.12-.17	.12-.17
Deflection Temperature C (F)						
@264 psi (1.8 Map)	ASTM D648	C (F)				
@66 psi (0.45Mpa)	ASTM D648	C (F)				
Coefficient of Linear						
Thermal Expansion	Parallel to Laminate	in/in/F	.000035	.00002	.000035	.000035
68°F to 200°F	Normal to Laminate	in/in/F	.000018	.00004	.000018	.000018
FILLER			Polyester / Polyester Fabric / PTFE	Vinyl Ester / Nomex® / PTFE	Polyester / Polyester Fabric / Special Lub.	Polyester / Polyester Fabric / Graphite Lub.
Operating Temperatures			-40F to +200F	-40F to +400F	-40F to +200F	-40F to +200F
Color			Pearl	Pearl	Red or Aqua	Gray

*We highly recommend testing in your specific application, this is a guide only