



SAERfoam® mechanical properties

r04

Epoxy resin

Testing norm		Unit	PU10 O10-30	PU10 O15-35	PU15 O10-30	PU15 O15-30	PU15 O18-35	PU20 O15-30	PU20 O20-30	PU20 O20-35	
Density											
Dry density	-	kg/m3	68	89	53	62	72	54	61	66	
Infused density	-	Kg/m3	149	214	128	174	204	162	204	209	
Resin intake	-	Kg/m ²	0,8	1,3	1,1	1,7	2,0	2,1	2,9	2,9	
Physical properties in plane											
Shear Strength (msmv)	ISO 1922	Mpa	1,4	2,2	1,0	1,4	1,8	1,1	1,4	1,6	
Shear modulus	ISO 1922	Mpa	87	146	63	92	121	75	98	110	
Compressive Strength	ISO 844	Mpa	1,5	3,4	1,5	2,7	3,7	2,5	3,5	3,8	
Compressive Modulus	ISO 844	Mpa	52	114	46	87	127	80	127	143	
Tensile Strength	ASTM C297	Mpa	1,6	2,5	1,2	1,7	2,1	1,4	1,8	2,0	
Service Temperature	-	°C	120	120	120	120	120	120	120	120	
Pic Temperature	30 min	°C	130	130	130	130	130	130	130	130	
Dimensions											
Standard sheets	Thickness	mm (+-0,5)	10			15			20		
	Width	mm (+-5)	1200	120	120	120	120	120	120	120	
	Length	mm (+-5)	1200	120	120	120	120	120	120	120	
	Finish		Plain sheet / Groove one or two sides / Drapable (grid scored)								

Testing norm		Unit	PU25 O15-35	PU25 O20-35	PU25 O23-35	PU30 O20-35	PU30 O25-35
Density							
Dry density	-	kg/m3	53	59	62	54	59
Infused density	-	Kg/m3	157	198	218	190	228
Resin intake	-	Kg/m ²	2,6	3,5	3,9	4,1	5,1
Physical properties in plane							
Shear Strength (msmv)	ISO 1922	Mpa	1,1	1,4	1,5	1,2	1,5
Shear modulus	ISO 1922	Mpa	71	93	105	82	102
Compressive Strength	ISO 844	Mpa	2,2	2,9	3,1	2,3	3,1
Compressive Modulus	ISO 844	Mpa	80	126	152	103	147
Tensile Strength	ASTM C297	Mpa	1,3	1,7	1,9	1,5	1,8
Service Temperature	-	°C	120	120	120	120	120
Pic Temperature	30 min	°C	130	130	130	130	130
Dimensions							
Standard sheets	Thickness	mm (+-0,5)	25			30	
	Width	mm (+-5)	120	120	120	120	120
	Length	mm (+-5)	120	120	120	120	120
	Finish		Plain sheet / Groove one or two sides / Drapable (grid scored)				

Resin type : Epoxy Epikote MGS RIMR 135
with 30% in weight of Epikure Curing
Agent MGS RIMH 134-RIMH 137
d 1,19

Lay up : 4 layers of TX825
(425-0°/200-45°/200--45°) each skin

Cure and Post cure : 8h at 80°C

Skins fiber fraction in weight : 71%

*Values are subject to modification and must be
controled on end application by users*