

Closed Molding Systems Product Mix



rev. 8/21/2003

Cavity Type	Product Group	Width mm / in	Roll length m / yds	SKIN		CORE		SKIN		TOTAL Weight			Characteristics:	Recommendation For Use...
				(g/sqm)	oz/ft ²	(g/sqm)	oz/ft ²	(g/sqm)	oz/ft ²	(g/sqm)	oz/ft ²	oz/ft ²		
Multimat (MM)														
Fixed	S375/G500/S375	1250/49	25/82	375	1.2	500	1.6	375	1.2	1250	4.1	36.8	100% glass 3-D core, chop strand mat backing	With RTM - Pressure & Vacuum injection, Scrimp and compression molding. Where structural strength with high mechanical properties are required. When there are flame, smoke and toxicity requirements. When extreme drapability and conformability is required. When consistent mechanical properties are required throughout the part.
Fixed	S450/G500/S450	1250/49	23/75	450	1.5	500	1.6	450	1.5	1400	4.6	41.3		
Fixed	S600/G500/S600	1250/49	20/66	600	2.0	500	1.6	600	2.0	1700	5.6	50.1		
Fixed	S600/G900/S600	1250/49	15/49	600	2.0	900	2.9	600	2.0	2100	6.9	61.9		
MultiCore (MC)														
Fixed	S300-V180-S300	1250/49		300	1.0	180	0.6	300	1.0	780	2.6	23.0	polypropylene core, chop strand mat backing	With RTM-Lite, Zip technology and Infusion. When low mechanical properties are acceptable. When good drapability and conformability are required. When a good surface finish is required.
Fixed	S300-V250-S300	1250/49		300	1.0	250	0.8	300	1.0	850	2.8	25.0		
Fixed	S450-V180-S450	1250/49		450	1.5	180	0.6	450	1.5	1080	3.5	31.8		
Fixed	S450-V250-S450	1250/49		450	1.5	250	0.8	450	1.5	1150	3.8	33.9		
Fixed	S600-V180-S600	1250/49		600	2.0	180	0.6	600	2.0	1380	4.5	40.7		
Fixed	S600-V250-S600	1250/49		600	2.0	250	0.8	600	2.0	1450	4.7	42.7		
Multifilo (MF)														
Fixed	S300-UF300-S300	1250/49		300	1.0	300	1.0	300	1.0	900	2.9	26.5	Unifilo core, style varies U813, U816, U852, mat backing	With RTM - Pressure & Vacuum injection, Scrimp and compression molding. Where structural strength with good mechanical properties are required. When cold preforming using a filled resin system for a low drape application. When a good finish is required. When hot preforms are required this is a cost effective option for higher drape applications. For easier handling and better finish than traditional continuous strand mat. Backing can be chop strand mat, or veil.
Fixed	S300-UF450-S300	1250/49		300	1.0	450	1.5	300	1.0	1050	3.4	30.9		
Fixed	S300-UF600-S300	1250/49		300	1.0	600	2.0	300	1.0	1200	3.9	35.4		
Fixed	S450-UF300-S450	1250/49		450	1.5	300	1.0	450	1.5	1200	3.9	35.4		
Fixed	S450-UF450-S450	1250/49		450	1.5	450	1.5	450	1.5	1350	4.4	39.8		
Fixed	S450-UF600-S450	1250/49		450	1.5	600	2.0	450	1.5	1500	4.9	44.2		
Fixed	S600-UF300-S600	1250/49		600	2.0	300	1.0	600	2.0	1500	4.9	44.2		
Fixed	S600-UF450-S600	1250/49		600	2.0	450	1.5	600	2.0	1650	5.4	48.6		
Fixed	S600-UF600-S600	1250/49		600	2.0	600	2.0	600	2.0	1800	5.9	53.0		
Unifilo (UN)														
Both	U-813, U-816, U-852 - 300gm	810-1500mm 32-59 in		300	1.0			300	1.0	8.8	standard Unifilo continuous strand mat			With RTM - Pressure and Vacuum injection, Scrimp and compression molding this is a good flow media. When cold preforming and you need a low drape, high resin flow structural reinforcement. When hot preforms are required.
Both	U-813, U-816, U-852 - 450gm		450	1.5	450	1.5	13.3							
Both	U-813, U-816, U-852 - 600gm		600	2.0	600	2.0	17.7							
Multiloop (ML)														
								Loop Height						
								(mm)	(in)					
Fixed	R420/L500-6	1250/49	98/322	420	1.4	500	1.6	6	0.24	926	3.0	27.3	100% glass 3-D loop, woven roving backing	With vacuum laminating, injection laminating, Urethane injection foaming and SRIM structural reaction injection molding. When structural reinforcement is required. For 3-D structural properties used in combination with another reinforcement as a skin.
Fixed	S600/L900-8	1250/49	60/197	600	2.0	900	2.9	8	0.31	1508	4.9	44.4		
Fixed	S900/L1000	1250/49	47/154	900	2.9	900	2.9	9	0.35	1809	5.9	53.3		
MultiAxials (MA)														
VAC	CM-5030									2695	8.8	79.4	H.W. = Heavy weight H.W. high flow 0/90 knit super H.W. high flow 0/90 knit light weight 0/90 with mat on both sides H.W. quadraxial with mat on both sides H.W. unidirectional fabric super H.W. unidirectional fabric high drape/conformable +/-45 with excellent cosmetics tabbing +/-45 knit H.W. +/-45 knit H.W. weight +/-45 knit with good conformability	With hand lay-up, Scrimp and vacuum compression molding. When low labor is required for use in large structural parts. These fabrics build up thickness fast with extremely high structural properties. Heavyweight fabrics are designed to minimize the number of plies in a laminate stack. Also available in high drape styles designed for cold preforming or highly contoured shapes.
VAC	CM-10430									4459	14.6	131.4		
VAC	CM-160808									1139	3.7	33.6		
VAC	QM-560808									2465	8.1	72.6		
VAC	U1140/R17/50-S50									1140	3.7	33.6		
VAC	U-2280/R17/100-S50									2280	7.5	67.2		
Both	X2400HD									830	2.7	24.5		
VAC	XM-242020									2051	6.7	60.4		
VAC	XM-4030									2288	7.5	67.4		
Both	XM-8015 HD									3187	10.4	93.9		
SmoothFinish (SF)														
Both	1581/0970/139									302	1.0	8.9	Tooling cloth fabric	Used on the outside of courser materials for a high end surface finish.
Both	AS30			30	0.1			30	0.1	0.9				

Ask your SGTF Product Specialist for more information on the following products:

Woven carbon, MultiAxial carbon and glass/carbon hybrid fabrics
 Customized reusable non-stick PTFE Vacuum Molding Bags for high and low drape parts