Med Class VI Selector Guide

RoHS/WEEE, REACH, and Halogen Free

MicroCoat Technologies
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Unparalleled in Polymer Coatings and Adhesives Technology

Series MCT M6

MCT Product Number	Applications	Viscosity cP	Shore Durometer	24 Hour Water Absorption	Bond To;	Comments
M634-9014	**bonding plastics with multiple dissimilar materials**	1000-2500	D25-35; A75-85	< 1.0%	plastics, ceramic, glass, stainless steel	UV/Visible cure, flexible, high elongation, tack-free surface
M634-6214	**bonding plastics with multiple dissimilar materials**	900–1500	D35-50; A85-100	< 1.0%	most plastics, ceramic, glass, stainless steel	UV/Visible cure, clear, tack-free surface, suitable for medical device assembly
M634-6214A	**bonding/laminating flexible materials and those with differing CTE values**	250-500	A45-65	< 1.0%	wide range of plastics, ceramic, glass, stainless steel	UV/Visible cure, extremely soft, highly flexible, tack-free surface, clear, suitable for medical device assembly
M634-1014	**bonding or sealing acrylic displays**	50-90	D70-90	3.00%	PMMA, PC, styrene, stainless steel	UV/Visible light curable, hard, tack-free surface, wicking viscosity, moisture resistant
M634-1014 01-18	**bonding or sealing acrylic displays**	8,000-16,000	D70-90	3.00%	PMMA, PC, styrene, stainless steel	UV/Visible light curable, hard, tack-free surface, high viscosity for gap-filling, moisture resistant
M634-2214	**bonding or forming a seal between surfaces**	500-900	D25-35; A75-85	< 1.0%	Polyurethane, PVC, other plastics, stainless steel, ceramic	UV/Visible cure, soft, flexible, high elongation, soft, waxy surface
M634-1014-2, 3	**needle/syringe assembly**	50-150	D70-80	< 3.0%	stainless steel, polycarbonate, PVC, treated polypropylene/HDPE	UV/Visible cure, low intensity curable, clear, moisture resistant, generates highest tensile strength with LED curing equipment, tack-free
M634-0114	**bonding/potting rigid plastics**	10-150	D80-90	< 1.0%	PC, PVC, polyester, other rigid plastics	UV/Visible cure, secondary thermal cure, low intensity curable, wicking grade viscosity, withstands autoclaving, very hard, clear, suitable for medical device assembly
M634-3014-0-6	**bonding/laminating materials with differing CTE values**	1K – 6K	D 65-80	< 1.0%	wide range of plastics, ceramic, glass, stainless steel	UV tack-free surface, clear, suitable for epoxy and phenolic bonding as well
M634-5004, 1014, 2014, 0114	**bonding PVC and polyethylene components**	200-300	D70-79	< 4.0%	PVC, PC, other plastics	UV/Visible cure, best for highly plasticized PVC, tack-free surface, suitable for medical device assembly
M634-752H-1	**Polycarbonates, PVC, tinned Cu, SS, Al, epoxy and phenolic**	1K	D65	<1%	PVC, metals	Through cure to .125" depth
M634-3014-1-8	**Excellent adhesion to substrates such as PVC, steel, brass, aluminum, glass, tinned copper wire, epoxy and phenolic.**	1K – 8K	D65	<1%	Needles, assemblies	Thorough cure to 1/8" can be accomplished in less than 30 seconds with a 15 mW/cm2 UV lamp
M634-4214-1-8	**adheres to a variety of substrates including metal, ceramic, glass and many plastics**	6K – 10K	A 60-70	<0.5%	Suitable for many sealing applications associated with medical product packaging.	UV/Visible light curable material cures to a tack free surface. The extreme softness and high elongation properties make it suitable for many sealing applications associated with medical product packaging.
M634-423-06	a two component low viscosity epoxy resin system for high performance bonding, sealing, coating, as well as small encapsulations, potting and castings	8K MIXED	D75	<1%	All plastics and metals	It has a wide service temperature range of -60°F to + 250°F. It bonds well to a wide variety of substrates including metals, glass, ceramics, wood and many plastics.

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MCT Product Number	Applications	Viscosity cP mPa	Shore Durometer	24 Hour Water Absorption	LED Cure	Bondable To;	Comments/Features
M24-104	catheter assembly	8000-15,000	D75-85	< 1.0%	no	stainless steel, nitinol, PU, PC	UV/Visible cure, clear, hard
M13-74	bonding plastics with multiple dissimilar materials	900–1500	D35-50	< 1.0%	yes	most plastics, ceramic, glass, stainless steel	UV/Visible cure, clear, tack-free surface, suitable for medical device assembly
M04-15	bonding/laminating flexible materials and those with differing CTE values	250-500	A45-65	< 1.0%	yes	wide range of plastics, ceramic, glass, stainless steel	UV/Visible cure, extremely soft, highly flexible, tack-free surface, clear, suitable for medical device assembly
M80-16	glass assembly	600-900	D75-85	< 1.0%	yes	glass, ceramic, metals, some plastics	UV/Visible cure, low intensity curable, clear, RI@ 25°C=1.511%
M80-16T	catheter assembly	4000-6000	D75-85	< 1.0%	yes	stainless steel, glass, some plastics	UV/Visible cure, secondary thermal cure, clear, hard, withstands autoclaving
M26-16	reservoir assembly	400-800	D25-35	< 1.0%	yes	stainless steel, ceramic, PU	UV/Visible cure, soft, flexible, high elongation
M14-07	needle/syringe assembly	50-150	D70-80	< 3.0%	yes	stainless steel, polycarbonate, PVC, treated polypropylene/HDPE	UV/Visible cure, low intensity curable, clear, moisture resistant, generates highest tensile strength with LED curing equipment, tack-free
M09-07V-HS	bonding/potting rigid plastics	10-150	D80-90	< 1.0%	yes	PC, PVC, polyester, other rigid plastics	UV/Visible cure, secondary thermal cure, low intensity curable, wicking grade viscosity, withstands autoclaving, very hard, clear, suitable for medical device assembly
M37-17V	bonding PVC and polyethylene components	200-300	D70-79	< 4.0%	yes	PVC, PC, other plastics	UV/Visible cure, best for highly plasticized PVC, tack-free surface, suitable for medical device assembly
M15-57	bonding rigid plastics	1300-2000	D80-90	< 1.0%	yes	PC, PVC, styrene, some metals	UV/Visible cure, low intensity curable, clear and very hard, highly resistant to yellowing and moisture
M15-57-VF	bonding rigid plastics	1300-2000	D80-90	< 1.0%	yes	PC, PVC, other plastics	UV/Visible cure, low intensity curable, tack-free surface, fluorescing, suitable for medical device assembly
M14-077-T	high strength bonds between many plastics and dissimilar materials, medical devices	2000 – 4000	70-80	2 hr boiling water 3%	Yes	polycarbonate, ABS, PVC, PMMA, PET, Glass, Stainless Steel	solvent-free, single component adhesive, clear, hard, and highly resistant to moisture, UV & UV LED cures extremely quickly
M9897-V	reservoir assembly/plastics bonding	3000-5000	D45-55	< 5.0%	yes	PC, ABS, PVC, polyester	UV/Visible cure, clear, moisture resistant, flexible, tack-free, suitable for medical device assembly
M00-48	bonding/laminating of flexible plastics	100-200	D40-50	< 2.0%	no	PE, Mylar, PVC, PC, polyester, other plastics, and stainless	UV cure, very flexible, clear, excellent for strain relief and lamination, high peel strength, UV/Visible cure version available, suitable for medical device assembly
MS107	bonding metals, plastics	3,000 – 5,000	80 – 90	< 0.5%	n/a	wide range of materials including metals (alumina, steel and stainless steel) and many plastics	two part, thermal curing epoxy adhesive
MV55-61	encapsulating	200-400	A70-80	< 0.35%	no	FR4 epoxy board, glass, metal, plastic	UV cationic curable epoxy, clear and flexible , resistant to thermal shock, excellent for substrates with mismatched CTE, low viscosity, can be used as an underfill

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