MILLER WELDMASTER®
The First Choice Globally

RF/HF Materials Weldability Chart

Material	Excellent	Good	Fair	Poor	None
ABS polymers		Good			
Acetal (Delrin)				Poor	
Acetal Copolymer				Poor	
Acrylics			Fair		
Aclar			Fair		
APET		Good			
Barex 210	Excellent				
Barex 218	Excellent				
Butyrate		Good			
Cellophone					None
Cellulose acetate (clear)		Good			
Cellulose acetate (color)		Good			
Cellulose acetate butyrate		Good			
Cellulose nitrate			Fair		
Cellulose triacetate			Fair		
CPET					None
Diallyl phthalate polymer, glass-filled				Poor	
Epoxy resins			Fair		
Ethyl cellulose					None
EVA (Ethyl Vinyl Acetate)		Good			
EVOH (Ethyl Vinyl Alcohol)			Fair		
Melamine-formaldehyde resin		Good			
Methylacrilate			Fair		
Nylon (Polyamide)			Fair		
Pelathane		Good			
PET (Polyethylene Terphthatate)		Good			
PETG (Polyethylene Terphthatate Glycol)	Excellent				
Phenol-formaldehyde resin		Good			
Pliofilm (Rubber Hydrochloride)	Excellent				

Material	Excellent	Good	Fair	Poor	None
Polyamide					
Polycarbonate				Poor	
Polychlorotrifluoroethylene				Poor	
Polyester				Poor	
Polyethylene (All)					None
Polymide				Poor	
Polymethyl (Methacrylate)			Fair		
Polypropylene					None
Polystyrene					None
Polytetrafluoroethylene (Teflon)					None
Polyurethane			Fair		
Polyurethane foam				Poor	
Polyurethane-vinyl film		Good			
Polyvinyl Acetate		Good			
Polyvinyl chloride (PVC) flexible, clear	Excellent				
PVC color	Excellent				
PVC opaque		Good			
PVC semi rigid		Good			
PVC rigid			Fair		
PVC flexible, glass-bonded	Excellent				
PVC coated material (cloth & paper)	Excellent				
Polyvinyl chloride (PVC) (adhesive emulsions)	Excellent				
Rubber					None
Rubber, compounded			Fair		
Rubber, hevea				Poor	
Saran (Polyvinylidene Chloride)	Excellent				
Silicones					None
Teflon (Tetrafluoroethytene)					None
Urea-formaldehyde resin		Good			

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