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DATE: May 17th, 2016
SUBJECT: STERILIZATION GUIDELINES

Dear Valued Customer,

Nordson Medical provides the following chart for our Value Plastics line of products as a guideline for choosing materials which may be suitable for certain types of sterilization. The data presented here is for reference only. It was compiled to provide our customers with a means of comparing the characteristics of components at the time of publication.

The particular conditions of your use and application of our products are beyond our control. It is imperative that you test our products in your specific application to determine their suitability. All information is provided without implied or express warranty or guarantees by Nordson Medical or other manufacturers. None of the information provided constitutes a recommendation or endorsement of any kind by Nordson Medical.

Please let us know if we can do anything else for you.

Sincerely,

A handwritten signature in black ink, appearing to read 'Robert Haynes'.

Robert Haynes
Regulatory Affairs

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Material - Manufacturer & Grade	VP Code	Gamma Radiation Sterilization*	Ethylene Oxide Sterilization	Autoclave Sterilization
ABS (Lace White) - INEOS Lustran 348-000000	-81	Compatible up to 5 Mrads	Good	Not suitable due to low heat deflection temperatures
ABS, MABS (Methyl Methacrylate) - BASF Terluc 2802 TR	-8003, SCV Series	Withstands up to 5 Mrad doses without yellowing	Good	Poor; components may distort due to low heat deflection temperatures
ABS (Sno White) - INEOS Lustran 348-012002	-8012	Compatible up to 5 Mrads	Good	Not suitable due to low heat deflection temperatures
Acetal - DuPont Delrin 500P	-10	Compatible up to 1 Mrad	Excellent	Very good
Acetal Copolymer - BASF Ultraform N 2320 003	-1006, -1007	Compatible up to 1.5 Mrads	Excellent	Very good
Acrylic - Cyro Cyrolite Med 2	-50	Very good up to commonly used doses (6 Mrads)	Excellent	Not recommended
Nylon (PA 66) - DuPont Zytel 101F	-0, -1, -2, -3, -4, -5, -06, -07	Very good; may discolor to brownish hue	Very good; some suceptibility to oxidizing agents	Very good; product may swell slightly due to water absorption
Nylon (PA 66) - DuPont Zytel SC310 NC010	-U1, U5, -U01, -U05	Very good; may discolor to brownish hue	Very good; some suceptibility to oxidizing agents	Very good; product may swell slightly due to water absorption
Nylon (Glass Reinforced) - DuPont Zytel 70G30L	-U71, -U75	Very good; may discolor to brownish hue	Very good; some suceptibility to oxidizing agents	Excellent
Nylon (Glass Reinforced) - DuPont Zytel 70G33L	-72	Very good; may discolor to brownish hue	Very good; some suceptibility to oxidizing agents	Excellent
Polycarbonate (Clear) - Bayer Makrolon 2558 550115	-9	Compatible up to 10 Mrads with minor loss of physical properties; will discolor to yellow-green hue	Highly compatible	Poor; may craze or stress crack due to molding stresses
Polycarbonate (Clear) - Bayer Makrolon Rx 1805 451118	-9010, SCV Series	Compatible up to 10 Mrads with minor loss of physical properties; may discolor slightly dependent upon dose/number of cycles	Highly compatible	Poor; may craze or stress crack due to molding stresses
Polycarbonate (Tinted) - Sabic Lexan HPS1	-9024	Highly compatible with reduced color shift when compared to unstabilized polycarbonate resins	Highly compatible	Not recommended
Polycarbonate (Tinted) - Styron Calibre Megarad 2081-15	-9002, DCV Series	Excellent up to 10 Mrads with minor loss of physical properties; light violet hue turns clear upon sterilization	Highly compatible	Not recommended
Polyethylene - LyondellBasell Purell PE 1840 H	SCV Series	Compatible up to 5 Mrads	Highly compatible	Not recommended
Polyethylene - Trilliant HC5420-0002 LL Natural Resin	-VP1	Highly compatible	Highly compatible	Not recommended
Polypropylene - Flint Hills P5M6K-080	-6005, -6006	Very good to commonly used sterilization doses (6 Mrads)	Highly compatible	Limited to 121°C for 20 minutes due to low heat deflection temperatures
Polysulfone - Solvay Udel P1700 CL2611	-40	Highly compatible; will discolor to brownish hue	Excellent	Excellent
PVDF - Arkema Kynar 1000 HD	-J1A	Highly compatible; will discolor to brownish hue	Excellent	Highly compatible
SAN - BASF 388S TR 77770	SCV Series	Compatible up to 5 Mrads	Good	Not suitable due to low heat deflection temperatures
Silicone - Wacker Elastosil LR 3003	SCV Series	Compatible up to 5 Mrads	Highly compatible	Very good

*1 Megarad (Mrad) = 10 kiloGrays (kGy)