



MegaRe® 100ST Super Impact Modified
impact modified, Type-66 nylon for injection molding applications

Property	Test Method	Units	Value
			DAM (0.2% water)
Mechanical Tensile Strength	D638	(-40-F) (73-F) (170-F)	11,600 (psi) 7,500 (psi) 5,900 (psi)
Tensile Elongation	D638	(-40-F) (73-F) (170-F)	20% 40 % 220%
Flexural Modulus	D790	(-40-F) (73-F) (170-F)	400,000 (psi) 255,000 (psi) 70,000 (psi)
Flexural Strength	D790	psi	9,800
Notched Izod Impact	D256	(-40-F) (73-F)	3.0 (ft lb/in) 15 (ft lb/in)
Thermal Heat Deflection Temperature 1.8 Mpa (264 psi) 0.5 Mpa (66-psi)	D648 (ISO 75-1/-2) “ “ “	°C (°F) “	71 (160) 216 (420)
Melting Point, Fisher -Johns	ASTM D 3418(ISO 3146)	°C	250-260
Coefficient of Linear Thermal Expansion	D696	in/in/°F x 10-5	3.4
Other			
24-hour water absorption	ASTM D 570	%	1.2
Saturation	UL 94	%	6.7
Flammability			HB
Shrinkage, 1/8 inch bar		in/in	.015
Specific Gravity	ASTM D 792		1.09

Processing			
Melt Temperature Range		°C (°F)	288-310 (550-590)
Mold Temperature Range		°C (°F)	65-120 (150-250)
Processing Moisture Content		%	<0.20

The information provided in this data sheet corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience becomes available. The data provided fall within the normal range of product properties and relate only to specific material designated; this data may not be valid for such material used in combination with any other materials or additives or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits or used alone as the basis of design; they are not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since Mega Polymers, Inc. cannot anticipate all variations in actual end-use conditions, Mega Polymers Compounding & Distribution Services, Inc. makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe and particular rights. Caution: Do not use this product in medical applications involving permanent implantation in the human body.