



NETWORK POLYMERS, INC.

**MS 100  
STYRENE METHYL  
METHACRYLATE  
COPOLYMER**

PROPERTIES	ASTM TEST	UNITS ENGLISH METRIC	
<b>PHYSICAL</b>			
Melt Flow Rate - Procedure A Condition G (200°C/5.0 kg)	D-1238	g/10 min	0.4
Specific Gravity	D-792		1.08
Moisture Absorption, 24 hours	D-570	%	.10
Light Transmission		%	89
Mold shrinkage	D-955	%	0.002 - 0.006 in/in 0.002 - 0.006 cm/cm
<b>IMPACT</b>			
Izod Impact, notched Test Method A (.125" bar)	D-256	ft-lb/in J/m	0.46 24.6
<b>TENSILE</b>			
Tensile Strength @ Break (chs 2.0 in/min)	D-638	psi MPa	9,500 65.5
Modulus (chs 2.0 in/min)	D-638	psi MPa	501,000 3,452
Elongation @ Break (chs 2.0 in/min)	D-638	%	2.3
<b>FLEXURAL</b>			
Flexural Modulus Test Method I, Procedure B (chs 0.05 in/min)	D-790	psi MPa	458,000 3,156
<b>THERMAL</b>			
Heat Deflection Temperature	D-648	°F °C	199 93
Vicat Softening	D-1525	°F °C	215 102

**This is to certify that the above product meets the requirements of FDA Regulation 21 CFR 177.1640 and CFR 177.1830**

SDB/00-9

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