



NETWORK POLYMERS, INC.

Injection Molding Grade

**NPS 90-0802
POLYSTYRENE**

High Impact

PROPERTIES	ASTM TEST	UNITS ENGLISH METRIC	
PHYSICAL			
Melt Flow Index, Procedure A Condition G (200° C/5.0kg)	D - 1238	g/10 min	8.0
Specific Gravity	D - 892	g/cc	1.04
Rockwell Hardness	D - 785	L Scale	47
THERMAL			
Vicat Softening Point	D - 1525	°F	185
		°C	85
Deflection Temperature (annealed @ 264 psi)	D - 648	°F	178
		°C	81
TENSILE			
Tensile Strength @ Break (chs 2.0 in/min)	D - 638	psi	3,900
		MPa	26.9
Elongation @ Break	D - 638	%	45.0
Tensile Modulus (chs 2.0" in/min)	D - 638	psi	230,000
		MPa	1,584
FLEXURAL			
Flexural Modulus Test Method I, Procedure B (chs 0.05 in/min)	D-790	psi MPa	280,000 1,929
IMPACT			
Izod Impact, notched Test Method A (.125" bar)	D - 256	ft-lb/in J/m	1.9 101.5

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