



NETWORK POLYMERS, INC.

Injection Molding Grade
GPPS BEADS
GENERAL
PURPOSE
POLYSTYRENE
NPS80-1800B

PROPERTIES	ASTM TEST	UNITS ENGLISH METRIC	
PHYSICAL			
Melt Flow Index, Procedure A Condition G (200° C/5.0kg)	D-1238	g/10min	18.0
Specific Gravity	D-792		1.04
Hardness	D-2240	Shore D	79
THERMAL			
Vicat Softening Point (.125" bar, 1000g)	D-1525	°F °C	187 86
TENSILE			
Tensile Strength @ Yield (chs 2.0 in/min)	D-638	psi MPa	5,000 34.5
Elongation @ Break	D-638	%	12
Tensile Modulus @ Yield (chs 2.0 in/min)	D-638	psi MPa	44,000 303
FLEXURAL			
Flexural Modulus Test Method I, Procedure B (chs 0.05 in/min)	D-790	psi MPa	460,000 3,169
IMPACT			
Izod Impact, notched Test Method A (.125" bar)	D-256	ft-lb/in J/m	0.2 10.7

JS 5-24-06

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