



NETWORK POLYMERS, INC.

**NPP 808 C2WW**  
**POLYCARBONATE**  
**ALLOY**

PROPERTIES	ASTM TEST	UNITS ENGLISH METRIC	Natural
<b>PHYSICAL</b>			
Melt Flow, Procedure A Condition G (200°C/5.0 kg) Condition I (230°C/3.8 kg) Condition O (300°C/1.2 kg)	D1238	g/10 min	3 12 78
Specific Gravity	D-792		1.21
Mold Shrinkage	D-955	in/in mm/mm	0.005 - 0.007 0.005 - 0.007
Rockwell Hardness	D-785	R scale	N/A
Water Absorbtion (24 hrs/73°F) (Equilibrium @ 73°F)	D-570	%	0.15 0.35
<b>IMPACT</b>			
Izod Impact, reverse notched 0.125", 23°C (73°F)	D-256	ft-lb/in J/m	NB NB
Izod Impact, regular notched 0.125", 23°C (73°F)	D-256	ft-lb/in J/m	2.0 2.0
Impact Falling Weight (Gardner Impact) @ 73°F	D-5420	in.-lb.	> 320
<b>TENSILE</b>			
Tensile Yield Strength, chs 2.0 in/min	D-638	psi MPa	8,000 55.1
<b>FLEXURAL</b>			
Flexural Modulus, tangent chs 0.05 in/min	D-790	psi MPa	300,000 2,067
<b>THERMAL</b>			
Heat Deflection Temperature 0.125"bar @ 1.8MPa (264psi) Unannealed/Conditioned 48 hours @ 23°C (73°F)	D-648	°F °C	172 78
<b>OPTICAL</b>			
Haze	D-1003	%	1.0
Light Transmission	D-1003	%	90

**FDA STATUS:** NPP 808 complies with **(1)** 21 CFR 175.300(b)(3)(vii) and Food Contact Notification No. 87 subject to extraction testing characterizing the type of food and conditions of use in the finished form in contact with food; **(2)** 21 CFR 176.170(c), Table 2, for use in contact with foods (aqueous, acidic, low-alcohol < 13% by volume, fatty) under Condition of Use **C** (hot filled or pasteurized above 150°F) through **G** (frozen storage-no thermal treatment in container), including **E** (<25% alcohol by volume, room temperature filled and stored-no thermal treatment in container); **(3)** 21 CFR 174.105 as an indirect food additive and **(4)** 21 CFR 177.1580 for indirect food contact applications.

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