

## Product Data Sheet

### Nemcon™ H PC DP113/X5

Nemcon™ H-series products are designed for use in high performance electronic assemblies where heat removal is critical to system performance. Nemcon™ H PC DP113/X5 is a thermally conductive, electrically insulating polycarbonate compound, combining good thermal conductivity with high HDT and good processability.

#### Typical Applications

- Housings for power components.
- Encapsulation/housings for bobbins, actuators, and coils.
- IC thermal management components, such as heat sinks, heat spreaders, or heat pipes.
- LED lighting assemblies.

Properties*	Standard	Unit	Typical Value
<b>Physical</b>			
Specific Gravity	D 792	-	1.56
<b>Mechanical</b>			
Tensile Stress @ brk, 50 mm/min	D 638	MPa.	45
Tensile Strain @ brk, 50 mm/min	D 638	%	3.45
Tensile Modulus, 50 mm/min	D 638	MPa.	2450
Flexural Stress @ brk, 1.3 mm/min, 50 mm span	D 790	MPa.	75
Flexural Modulus, 1.3 mm/min, 50 mm span	D 790	MPa.	2950
Izod Impact, notched @ 23°C	D 256	ft-lb/in.	1.1
<b>Thermal</b>			
HDT @ 264 psi, 3.2 mm, unannealed	D 648	°C	124
<b>Conductivity</b>			
Thermal Conductivity	E 1461	W/mK	1.8
Electrical - Surface Resistivity	D 257	Ohms/ sq.	1.0 E + 12

\*All properties are measured after 48 hours of conditioning at 23°C and 50% relative humidity. All samples are prepared according to ASTM standards. Variations within normal tolerances are possible for various types of colors and functional properties like UV resistance.

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