

Product Data Sheet

NEMCON™ H PU DP124/X2

Nemcon™ H-series products are designed for use in applications where heat removal is critical to system performance. Nemcon™ H PU DP124/X2 is thermally conductive polyurethane, available as an injection moldable grade to replace metals in enclosures and medical device parts. It should be used in applications where thermal management must be accomplished along with aesthetics and cost-effectiveness.

Properties*	Standard	Unit	Typical Value
Physical			
Specific Gravity	D 792	-	1.55
Mechanical			
Tensile Stress @ brk, 50 mm/min	D 638	MPa.	10
Tensile Strain @ brk, 50 mm/min	D 638	%	4.2
Tensile Modulus, 50 mm/min	D 638	MPa.	675
Flexural Stress @ brk, 1.3 mm/min, 50 mm span	D 790	MPa.	18
Flexural Modulus, 1.3 mm/min, 50 mm span	D 790	MPa.	580
Izod Impact, notched @ 23°C	D 256	ft-lb/in.	0.5
Conductivity			
Thermal Conductivity-Thru-Plane	E 1461	W/mK	1.2-1.5
Thermal Conductivity-In-Plane	E 1461	W/mK	2-4
Electrical - Surface Resistivity	D 257	Ohms/sq.	8.0E+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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