

NEMCON H PU DP124/X2

Polyurethane (MDI)
Ovation Polymers Inc.

Message:

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.

General Information	
Features	Pleasing Surface Appearance
	Thermally Conductive
Uses	Medical/Healthcare Applications
	Metal Replacement

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.55	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	675	MPa	ASTM D638
Tensile Strength ² (Break)	10.0	MPa	ASTM D638
Tensile Elongation ³ (Break)	4.2	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	580	MPa	ASTM D790
Flexural Strength ⁵ (Break, 50.0 mm Span)	18.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	27	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Thermal Conductivity			ASTM E1461
-- ⁶	1.3	W/m/K	
-- ⁷	3.0	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	8.0E+12	ohms	ASTM D257

NOTE	
1.	50 mm/min
2.	50 mm/min
3.	50 mm/min
4.	1.3 mm/min
5.	1.3 mm/min
6.	Thru-Plane, Range: 1.2 to 1.5
7.	In-Plane, Range: 2 to 4

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