

# NEMCON H PC DP120/X3 BK

Polycarbonate  
Ovation Polymers Inc.

Message:

Nemcon™ H-series products are designed for use in high performance electronic assemblies where heat removal is critical to system performance. Nemcon™ H PC DP105/X3 BK is a black colored, thermally conductive polycarbonate compound, combining excellent thermal conductivity with high HDT and good processability.

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.

General Information			
Features	Good Processability		
	High Heat Resistance		
	Thermally Conductive		
Uses	Electrical Housing		
	Electrical Parts		
	Electrical/Electronic Applications		
	High Temperature Applications		
	Housings		
	Labels		
	Piping		
Appearance	Black		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm <sup>3</sup>	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup>	6700	MPa	ASTM D638
Tensile Strength <sup>2</sup> (Break)	57.0	MPa	ASTM D638
Tensile Elongation <sup>3</sup> (Break)	2.1	%	ASTM D638
Flexural Modulus <sup>4</sup> (50.0 mm Span)	8050	MPa	ASTM D790
Flexural Strength <sup>5</sup> (Break, 50.0 mm Span)	80.0	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
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	132	°C	ASTM D648
Thermal Conductivity			ASTM E1461
-- <sup>6</sup>	3.3	W/m/K	
-- <sup>7</sup>	10	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		
7.	In-Plane		

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