

NEMCON H ES DP110/X3

Polycarbonate Alloy
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 ES DP110/X3 is a thermally conductive polycarbonate alloy, combining good thermal conductivity with improved HDT and processability relative to conventional polycarbonate compounds.

General Information			
Features	Heat conduction		
	Workability, good		
	Heat resistance, high		
Uses	Electrical/Electronic Applications		
	Electrical components		
	Electrical housing		
	High temperature application		
	Shell		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.49	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	3180	MPa	ASTM D638
Tensile Strength ² (Break, 23°C)	47.0	MPa	ASTM D638
Tensile Elongation ³ (Break, 23°C)	1.7	%	ASTM D638
Flexural Modulus ⁴ (23°C, 50.0 mm Span)	7350	MPa	ASTM D790
Flexural Strength ⁵ (Break, 23°C, 50.0 mm Span)	75.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	19	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	113	°C	ASTM D648
Thermal Conductivity (23°C)	3.5	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	8.0E+12	ohms	ASTM D257
Additional Information			
The value listed as Thermal Conductivity, ASTM C177 was tested in accordance with ASTM E1461.			
NOTE			
1.	50 mm/min		

2.	50 mm/min
3.	50 mm/min
4.	1.3 mm/min
5.	1.3 mm/min

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