NEMCON H PC DP120/X2

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 ES DP110/X3 is a natural, thermally conductive polycarbonate, combining good thermal conductivity with improved HDT and processability relative to conventional polycarbonate compounds.
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 Piping		
Appearance	Natural Color		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.60	g/cm³	ASTM D792
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1]	3100	MPa	ASTM D638
Tensile Strength [2] (Break)	45.0	MPa	ASTM D638
Flexural Modulus [3] (50.0 mm Span)	6000	MPa	ASTM D790
Flexural Strength [4] (Break, 50.0 mm Span)	75.0	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)	130	°C	ASTM D648
Thermal Conductivity			ASTM E1461
-- [5]	2.2	W/m/K	
-- [6]	6.2	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.	1.3 mm/min
4.	1.3 mm/min
5.	Thru-Plane
6.	In-Plane

Recommended distributors for this material

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