



OVATION POLYMERS

Ovation Polymer Technology & Engineered Materials

Product Data Sheet

Nemcon™ H PPS DP148

PPS based, thermally conducting, electrically insulating grade with improved processability.

Properties*	Standard	Unit	Typical Value
Physical			
Specific Gravity	D 792	-	1.89
Mechanical			
Tensile Stress @ brk, 50 mm/min	D 638	MPa.	53
Tensile Strain @ brk, 50 mm/min	D 638	%	2.1
Tensile Modulus, 50 mm/min	D 638	MPa.	4500
Flexural Stress @ brk, 1.3 mm/min, 50 mm span	D 790	MPa.	87
Flexural Modulus, 1.3 mm/min, 50 mm span	D 790	MPa.	4700
Izod Impact, notched @ 23°C	D 256	ft-lb/in.	0.40 – 0.60
Conductivity			
Thermal Conductivity (through plane)	Internal Method	W/m-K	0.8 – 1.1
Thermal Conductivity (in plane)	Internal Method	W/m-K	3.2 – 5.0

*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.

Technical information contained in this report is furnished without cost or obligation. Nothing contained in this bulletin shall be considered a recommendation for use which may infringe on any patent rights or as an endorsement of any material supplied by Ovation Polymers, Inc. (OPTEM). Since Ovation Polymers, Inc. has no control over the many different conditions under which this information and our products may be used, Ovation Polymers, Inc. recommends each user to conduct its own tests to determine a material's suitability for a particular use. We do not guarantee the applicability or suitability of our products in any given situation. The properties listed herein fall within the normal range of product properties and should not be used to establish specification limits. Colorants, additives and secondary operations of any kind may alter some or all of the properties of these materials. Flammability information included herein indicates only the potential for meeting UL listing criteria and does not necessarily mean that UL listings for any given material have been secured.



OVATION POLYMERS

Ovation Polymer Technology & Engineered Materials

Processing Guidelines

Nemcon™ H PPS DP148

Parameter	Unit	Typical Value
Drying Temperature	°C	120-140
Drying Time	hours	4 – 6
Maximum Moisture Content	%	0.02
Mold Temperature	°C	140-160
Nozzle Temperature	°C	310 – 340
Front – Zone 3 Temperature	°C	300 – 330
Middle – Zone 2 Temperature	°C	290 – 310
Rear – Zone 1 Temperature	°C	280 – 300
Melt Temperature	°C	290 – 320
Back Pressure	psi.	30 – 80
Screw Speed	rpm	80 – 120

Technical information contained in this report is furnished without cost or obligation. Nothing contained in this bulletin shall be considered a recommendation for use which may infringe on any patent rights or as an endorsement of any material supplied by Ovation Polymers. Since Ovation Polymers has no control over the many different conditions under which this information and our products may be used, Ovation Polymers recommends each user to conduct its own tests to determine a materials suitability for a particular use. We do not guarantee the applicability or suitability of our products in any given situation. The properties listed herein fall within the normal range of product properties and should not be used to establish specification limits. Colorants, additives and secondary operations of any kind may alter some or all of the properties of these materials. Flammability information included herein indicates only the potential for meeting UL listing criteria and does not necessarily mean that UL listings for any given material have been secured.

Safety Precautions: Ovation Polymer's thermoplastic blends and alloys, as supplied should present no toxicity problems. Because these materials can be reinforced into high modulus grades, grinding will generate dust and small levels of glass and filler fines. Consequently, direct contact with the skin and inhalation of grind dust should be avoided. As with all thermoplastics, proper ventilation around molding machine/extruder is recommended. In no case should material temperature be allowed to exceed maximums listed in the process parameter guide chart, as degradation can cause harmful vapors to be released. Consult Ovation Polymer's MSDS for detailed safety information on specific products and grades.