

NEMCON H PPS DP149

Polyphenylene Sulfide
Ovation Polymers Inc.

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

General Information			
Features	Electrically Insulating		
	Good Processability		
	Thermally Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.66	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	5600	MPa	ASTM D638
Tensile Strength ² (Break, 23°C)	56.0	MPa	ASTM D638
Tensile Elongation ³ (Break, 23°C)	2.0	%	ASTM D638
Flexural Modulus ⁴ (23°C, 50.0 mm Span)	6150	MPa	ASTM D790
Flexural Strength ⁵ (Break, 23°C, 50.0 mm Span)	90.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	21 to 32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Thermal Conductivity			Internal Method
23°C ⁶	1.3 to 1.5	W/m/K	
23°C ⁷	5.5 to 8.0	W/m/K	
Injection	Nominal Value	Unit	
Drying Temperature	120 to 140	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	280 to 300	°C	
Middle Temperature	290 to 310	°C	
Front Temperature	300 to 330	°C	
Nozzle Temperature	310 to 340	°C	
Processing (Melt) Temp	290 to 320	°C	
Mold Temperature	140 to 160	°C	
Back Pressure	0.207 to 0.552	MPa	
Screw Speed	80 to 120	rpm	
NOTE			

1.	50 mm/min
2.	50 mm/min
3.	50 mm/min
4.	1.3 mm/min
5.	1.3 mm/min
6.	Through Plane
7.	In Plane

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