

NEMCON H PP DP172

Polypropylene
Ovation Polymers Inc.

Message:
Polypropylene 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	1.15	g/cm ³	ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹ (23°C)	2100	MPa	ASTM D638
Tensile Strength ² (Break, 23°C)	20.0	MPa	ASTM D638
Tensile Elongation ³ (Break, 23°C)	8.5	%	ASTM D638
Flexural Modulus ⁴ (23°C, 50.0 mm Span)	700	MPa	ASTM D790
Flexural Strength ⁵ (Break, 23°C, 50.0 mm Span)	25.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	43	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	60.0 to 70.0	°C	
Drying Time	2.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	180 to 200	°C	
Middle Temperature	190 to 220	°C	
Front Temperature	210 to 230	°C	
Nozzle Temperature	210 to 230	°C	
Processing (Melt) Temp	210 to 220	°C	
Mold Temperature	55.0 to 70.0	°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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