

## Ovation Polymers Nemcon™ H ABS DP116P ABS

Category : Polymer , Thermoplastic , ABS Polymer

### Material Notes:

ABS-Thermally conducting, electrically insulating grade with high HDT and improved processability. Information provided by Ovation Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ovation-Polymers-Nemcon-H-ABS-DP116P-ABS.php](http://www.lookpolymers.com/polymer_Ovation-Polymers-Nemcon-H-ABS-DP116P-ABS.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.66 g/cc	1.66 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	%

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	32.0 MPa	4640 psi	50 mm/min; ASTM D638
Elongation at Break	1.7 %	1.7 %	50 mm/min; ASTM D638
Tensile Modulus	3.572 GPa	518.1 ksi	50 mm/min; ASTM D638
Flexural Strength	52.0 MPa	7540 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	3.188 GPa	462.4 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.214 J/cm @Temperature 23.0 °C	0.401 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.700 W/m-K	4.86 BTU-in/hr-ft <sup>2</sup> -°F	ASTM E-1461
Deflection Temperature at 1.8 MPa (264 psi)	81.0 °C @Thickness 3.20 mm	178 °F @Thickness 0.126 in	unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Surface Resistivity per Square	8.00e+12 ohm	8.00e+12 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Nozzle Temperature	220 - 270 °C	428 - 518 °F	
Zone 1	220 - 255 °C	428 - 491 °F	

<b>Zone 2</b> Processing Properties	<b>220 - 260 °C</b> Metric	<b>428 - 500 °F</b> English	Comments
Zone 3	220 - 265 °C	428 - 509 °F	
Melt Temperature	220 - 275 °C	428 - 527 °F	
Mold Temperature	40.0 - 80.0 °C	104 - 176 °F	
Drying Temperature	70.0 - 90.0 °C	158 - 194 °F	
Dry Time	4 - 6 hour	4 - 6 hour	
Back Pressure	0.207 - 0.552 MPa	30.0 - 80.0 psi	
Screw Speed	70 - 100 rpm	70 - 100 rpm	

## Contact Songhan Plastic Technology Co.,Ltd.

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