

# R.V.P. HANGER TIE MATERIAL

6601 BK

Nylon 66 Injection Grade

PROPERTY	CONDITIONS	ENGLISH UNITS		SI UNITS		TEST METHOD
		VALUE	UNITS	VALUE	UNITS	
Properties measured dry as molded						
<b><u>GENERAL</u></b>						
Color		Black				
Ash		1.0 max.		1.0 max.		ASTM D5630
Relative Viscosity		52		N/A		ASTM D789
Moisture		0.25 max.	%	0.25 max.	%	ASTM D789
Specific Gravity		1.14		1.14		ASTM D792
Melt Point		496	°F	496	°C	ASTM D3418
<b><u>PHYSICAL</u></b>						
Tensile Strength		11,000	psi	76	MPa	ASTM D638
Flexural Modulus		410,000	psi	2,827	MPa	ASTM D790
Elongation at Break		25	%	25	%	ASTM D638
Izod Impact, notched		1.0	ft-lb/in	53	J/m	ASTM D256
Linear Mold Shrinkage	Thickness 1/8"	0.14	in/in	0.14	mm/mm	ASTM D955
Heat Deflection Temp.	66 psi	428	°F	220	°C	ASTM D648
	264 psi	149	°F	65	°C	ASTM D648
Flammability		HB		HB		UL 94
<b>Date</b>						<b>12/16/2010</b>

The information provided above is based on laboratory testing using the test methods indicated and is believed to represent nominal results of those tests. Because conditions under which this material may be processed, tested or used cannot be anticipated, no warranty is given, either expressed or implied, as to the accuracy or reproducibility of this information or for the fitness of this material for any particular use. This material is sold with the express understanding that purchasers, processors or other users of this material have sole responsibility, through performance of their own testing, to determine the suitability of this material for any particular use.

CTE, linear 20°C Transverse to Flow	100 - 200 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	55.6 - 111 $\mu\text{in}/\text{i}$
CTE, linear 100°C	90 - 105 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	50 - 58.3 $\mu\text{in}/\text{i}$
Specific Heat Capacity	1.6 J/g-°C	0.382 BTU/l
Thermal Conductivity	0.17 - 0.3 W/m-K	1.18 - 2.08 BTU-in/hr-ft
Melting Point	193 - 255 °C	379 - 49
Maximum Service Temperature, Air	40 - 230 °C	104 - 44
Deflection Temperature at 0.46 MPa (66 psi)	50 - 198 °C	122 - 38
Deflection Temperature at 1.8 MPa (264 psi)	40 - 230 °C	104 - 44
Vicat Softening Point	80 - 204 °C	176 - 39
Minimum Service Temperature, Air	-40 - -20 °C	-40 - -
Glass Temperature	60 °C	14
UL RTI, Electrical	65 - 105 °C	149 - 22