



## DIELECTRITE AV-206

SMC for Automotive & Heavy Truck UTH Applications

AV-206 is an automotive grade glass reinforced thermoset sheet molding compound. AV-206 SMC is designed for under the hood applications and is characterized by its oil, solvent and salt spray resistance at elevated temperatures.

AV-206 grade has superior high heat dimensional creep resistance and has excellent elevated temperature modulus retention. It can be produced in a wide range of colors for such under hood applications as valve covers, oil pans, transmission covers, third member covers and timing chain covers. AV-206 can be used as a replacement for cast metals for reduced NVH.

### AGED 6 WEEKS IN VALVOLINE PREMIUM BLUE 15W40 @ 300°

Property	Metric	English	Test Method
Tensile Strength, Ultimate @ 23° C	80.5 MPa	11,673 psi	ISO 527
Tensile Strength, Ultimate @ 150° C	56.2 MPa	8,149 psi	ISO 527
Tensile Modulus @ 23° C (tangent)	15.6 GPa	2.26 Msi	ISO 527
Tensile Modulus @ 150° C	10.4 GPa	1.51 Msi	ISO 527
Flex Strength @ 23° C	174.3 MPa	25,274 psi	ISO 178
Flex Strength @ 150° C	92 MPa	13,340 psi	ISO 178
Flex Modulus @ 23° C	12.6 GPa	1.83 msi	ISO 178
Flex Modulus @ 150° C	6.6 GPa	0.96 msi	ISO 178
Flex Modulus secant, 0.5mm @ 23° C	12.7 GPa	1.84 msi	ISO 178
Flex Modulus secant, 0.5mm @ 150° C	6.5 GPa	0.94 msi	ISO 178
Izod Impact, Unnotched	6.85 J/cm	12.8 ft-lb/in	ASTM D4812
DMA Tg	190° C	374° F	-
Thermal Conductivity	-	3.10 BTU in/h ft <sup>2</sup> F°	ASTM 1530-93
CLTE, Z direction	-	18 ppm/°F	ASTM D696
CLTE, XY direction	-	12 ppm/°F	ASTM D696
Water Absorption	-	0.1%	ISO 62

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