

## SMAC SMOACTANE<sup>®</sup> SP Damping Material

Category : Other Engineering Material

### Material Notes:

A viscoelastic rubber material developed by SMAC for space applications and maximizes the damping properties in a wide range of temperatures & frequencies Damping properties: Damping properties are determined by visco-analysis The damping criteria is given by the loss angle tangent (also called Tangent or loss factor). It is a function of frequency and temperature Information provided by SMAC MontBlac Groupe Technologies

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SMAC-SMOACTANE-SP-Damping-Material.php](http://www.lookpolymers.com/polymer_SMAC-SMOACTANE-SP-Damping-Material.php)

Physical Properties	Metric	English	Comments
Outgassing - Total Mass Loss	0.00020 %	0.00020 %	CVCM
	0.0079 %	0.0079 %	RML
	0.0088 %	0.0088 %	TML

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	42 - 52	42 - 52	NFT 46-052
Tensile Strength	10.9 MPa	1580 psi	NF T 46-002
Elongation at Break	800 %	800 %	NF T 46-002
	840 %	840 %	Shear; NF T 46-023
100% Modulus	0.000710 GPa	0.103 ksi	NF T 46-002
Shear Modulus	0.000410 GPa @Strain 100 %	0.0595 ksi @Strain 100 %	NF T 46-023
Shear Strength	6.60 MPa	957 psi	NF T 46-023

Descriptive Properties	Value	Comments
Delta Tangent (G''/G')	0.2	0 Hz @ 20 <sup>°</sup> C
	0.65	1.00E+06 Hz @ 20 <sup>°</sup> C
	0.7	100 Hz @ 20 <sup>°</sup> C
	1.1	4000 Hz @ 20 <sup>°</sup> C

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