

## Overview of materials for Phenolic, Ablative Coating

Category : Polymer , Thermoset , Phenolic , Phenolic, Ablative Coating

### Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Phenolic, Ablative Coating". Each property range of values reported is minimum and maximum values of appropriate MatWeb entries. The comments report the average value, and number of data points used to calculate the average. The values are not necessarily typical of any specific grade, especially less common values and those that can be most affected by additives or processing methods.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Overview-of-materials-for-Phenolic-Ablative-Coating.php](http://www.lookpolymers.com/polymer_Overview-of-materials-for-Phenolic-Ablative-Coating.php)

| Physical Properties | Metric           | English                            | Comments                               |
|---------------------|------------------|------------------------------------|--|
| Density             | 1.25 - 1.85 g/cc | 0.0452 - 0.0668 lb/in <sup>3</sup> | Average value: 1.53 g/cc Grade Count:4 |

| Mechanical Properties      | Metric          | English        | Comments                              |
|----------------------------|-----------------|----------------|---------------------------------------|
| Tensile Strength, Ultimate | 4.30 - 40.4 MPa | 624 - 5860 psi | Average value: 21.8 MPa Grade Count:4 |
| Elongation at Break        | 0.660 - 12.5 %  | 0.660 - 12.5 % | Average value: 6.60 % Grade Count:4   |

| Thermal Properties   | Metric              | English                                   | Comments                                 |
|----------------------|---------------------|---|--|
| Thermal Conductivity | 0.282 - 0.513 W/m-K | 1.96 - 3.56 BTU-in/hr-ft <sup>2</sup> -°F | Average value: 0.407 W/m-K Grade Count:4 |

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