

## Overview of materials for Chlorinated PVC (CPVC)

Category : Polymer , Thermoplastic , Vinyl (PVC) , Chlorinated PVC (CPVC)

### Material Notes:

This property data is a summary of similar materials in the MatWeb database for the category "Chlorinated PVC (CPVC)". 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-Chlorinated-PVC-CPVC.php](http://www.lookpolymers.com/polymer_Overview-of-materials-for-Chlorinated-PVC-CPVC.php)

| Physical Properties | Metric                         | English                            | Comments                                             |
|---------------------|--------------------------------|------------------------------------|------------------------------------------------------|
| Density             | 0.700 - 1.56 g/cc              | 0.0253 - 0.0564 lb/in <sup>3</sup> | Average value: 1.43 g/cc Grade Count:19              |
| Viscosity Test      | 72.0 - 94.0 cm <sup>3</sup> /g | 72.0 - 94.0 cm <sup>3</sup> /g     | Average value: 79.3 cm <sup>3</sup> /g Grade Count:3 |

| Mechanical Properties      | Metric                        | English                           | Comments                                            |
|----------------------------|-------------------------------|-----------------------------------|-----------------------------------------------------|
| Hardness, Rockwell R       | 111 - 119                     | 111 - 119                         | Average value: 116 Grade Count:10                   |
| Hardness, Shore D          | 80.0 - 84.0                   | 80.0 - 84.0                       | Average value: 82.9 Grade Count:7                   |
| Tensile Strength, Yield    | 48.4 - 58.0 MPa               | 7020 - 8410 psi                   | Average value: 53.5 MPa Grade Count:15              |
| Elongation at Break        | 12.0 - 163 %                  | 12.0 - 163 %                      | Average value: 53.5 % Grade Count:6                 |
| Elongation at Yield        | 4.00 - 7.00 %                 | 4.00 - 7.00 %                     | Average value: 5.50 % Grade Count:4                 |
| Modulus of Elasticity      | 1.79 - 3.10 GPa               | 260 - 450 ksi                     | Average value: 2.68 GPa Grade Count:16              |
| Flexural Yield Strength    | 46.2 - 108 MPa                | 6700 - 15700 psi                  | Average value: 88.8 MPa Grade Count:13              |
| Flexural Modulus           | 2.26 - 3.50 GPa               | 328 - 508 ksi                     | Average value: 2.85 GPa Grade Count:13              |
| Izod Impact, Notched       | 0.960 - 4.80 J/cm             | 1.80 - 8.99 ft-lb/in              | Average value: 1.95 J/cm Grade Count:13             |
| Izod Impact, Notched (ISO) | 2.31 - 2.31 kJ/m <sup>2</sup> | 1.10 - 1.10 ft-lb/in <sup>2</sup> | Average value: 2.31 kJ/m <sup>2</sup> Grade Count:1 |
|                            | @Temperature 0.000 - 0.000 °C | @Temperature 32.0 - 32.0 °F       |                                                     |
|                            | 2.31 - 2.31 kJ/m <sup>2</sup> | 1.10 - 1.10 ft-lb/in <sup>2</sup> | Average value: 2.31 kJ/m <sup>2</sup> Grade Count:1 |
|                            | @Thickness 3.18 - 3.18 mm     | @Thickness 0.125 - 0.125 in       |                                                     |
| Charpy Impact Unnotched    | NB                            | NB                                | Grade Count:4                                       |

| Mechanical Properties  | Metric            | English               | Comments                                |
|------------------------|-------------------|-----------------------|-----------------------------------------|
| Charpy Impact, Notched | 1.00 - 1.36 J/cm² | 4.72 - 6.47 ft-lb/in² | Average value: 1.11 J/cm² Grade Count:4 |

| Thermal Properties                          | Metric        | English       | Comments                             |
|---------------------------------------------|---------------|---------------|--------------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 46.7 - 115 °C | 116 - 239 °F  | Average value: 100 °C Grade Count:17 |
| Vicat Softening Point                       | 98.0 - 115 °C | 208 - 239 °F  | Average value: 109 °C Grade Count:5  |
| Flammability, UL94                          | V-0           | V-0           | Grade Count:8                        |
| Oxygen Index                                | 56.0 - 75.0 % | 56.0 - 75.0 % | Average value: 68.5 % Grade Count:5  |

| Processing Properties | Metric       | English      | Comments                             |
|-----------------------|--------------|--------------|--------------------------------------|
| Melt Temperature      | 191 - 210 °C | 376 - 410 °F | Average value: 203 °C Grade Count:11 |

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