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PLASTM

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Material Data Shet

| Trade name DIN EN ISO 1043 designation Modification | ECTFE <br> ECTFE <br> none |  |  |
| :---: | :---: | :---: | :---: |
| Properties | Unit | Test method | Value |
| General Properties <br> Density <br> Moisture absorption <br> Saturation in air of $23^{\circ} \mathrm{C} / 50 \% \mathrm{RH}$ <br> Flammability acc.to UL 94 (Thickn. 3mm/6mm) | $\begin{gathered} \mathrm{g} / \mathrm{cm}^{3} \\ \% \end{gathered}$ | DIN EN ISO 1183-1 <br> DIN EN ISO 62 <br> ISO 1210 (UL 94) | 1,71 <br> Vo / Vo |
| Mechanical Properties <br> Yield point <br> Elongation at break <br> Tensile modulus of elasticity <br> Notched impact strength (Charpy) <br> Ball indentation hardness <br> Shore - Hardness | $\begin{gathered} \mathrm{MPa} \\ \% \\ \mathrm{MPa} \\ \mathrm{~kJ} / \mathrm{m}^{2} \\ \mathrm{~N} / \mathrm{mm}^{2} \\ \text { Scale D } \end{gathered}$ | DIN EN ISO 527 DIN EN ISO 527 DIN EN ISO 527 ISO 179/1eA/Pendulum 1 J DIN EN ISO 2039-1 DIN 53505 | $\begin{gathered} \text { Test specimen "dry" } \\ 30 \\ 250 \\ 1.500 \\ - \\ - \\ 70 \end{gathered}$ |
| Thermal Properties <br> Melting temperature <br> Thermal conductivity <br> Specific thermal capacity <br> Coefficient of linear thermal expansion <br> Service temperature - long-term <br> Service temperature - short-term, max. <br> Heat deflection temperature, Method A:1,8 MPa | ${ }^{\circ} \mathrm{C}$ <br> W/(mk) <br> kJ/(kgK) <br> $10^{-6} \mathrm{~K}^{-1}$ <br> ${ }^{\circ} \mathrm{C}$ <br> ${ }^{\circ} \mathrm{C}$ <br> ${ }^{\circ} \mathrm{C}$ | ISO 11357 <br> DIN 52612 <br> DIN 52612 <br> Average betw. $20^{\circ} \mathrm{C}-60^{\circ} \mathrm{C}$ <br> DIN EN ISO 75 | 0,15 <br> 90 <br> - 50 up to 150 |
| Electrical Properties <br> Dielectric constant, 50 Hz <br> Dielectric dissipation factor, 50 Hz <br> Volume resistivity <br> Surface resistivity <br> Comparative tracking index CTI, Sol. A Dielectric strength | Ohmcm Ohm kV/mm | IEC 60250 <br> IEC 60250 <br> IEC 60093 <br> IEC 60093 <br> IEC 60112 <br> IEC 60243 | $\begin{gathered} - \\ 10^{15} \\ 10^{13} \\ 600 \\ 15 \end{gathered}$ |

Remarks:

The electrical properties as stated result from measurements on natural, dry material. With other colors (in particular black) or saturated material, there may be clear differences in the electrical properties.
The values indicated result from numerous individual measurements for an approximation of the values and are to our today's knowledge. They serve as information about our products and are presented as a guide to choose from our range of materials. This, however, does not include an assurance of specific properties or the suitability for particular application purposes that are legally binding. Since the properties also depend on the dimension of the semi-finished products and the degree of crystallisation (e.g. nucleating by pigments), the actual values of the properties of a particular product may differ from the indicated values.

