

| Mechanical Properties | Norm | Unit | Cast |
|--|----------------------|--------------------|---------------|
| Specific weight | DIN 53479 | gr/cm ³ | 1,19 |
| Impact strength (Charpy) | DIN 53453 | kJ/m ² | 15 |
| Notched impact strength(Izod) | DIN 53453 | kJ/m ² | 1,6 |
| Tensile strenght (Charpy) | D638 | Mpa | |
| | | | |
| -40° C | | | 110 |
| 20° C | | | 80 |
| 70° C | | | 40 |
| Elongation at break | DIN 53455 | % | 5,5 |
| Flexural strength (st. Test specimen 80x10x4 mm ³) | D790 | Mpa | 115 |
| Compressive yield stress | - | MPa | 110 |
| Max safety stress (up to 40° C) | - | Mpa | 5 ... 10 |
| Modulus of elasticity (short-term value) | D790 | MPa | 3300 |
| term value) | | | |
| Indentation hardness H _{961/30} | DIN 53456 | MPa | 175 |
| | | | |
| Abrasion resistance in Taber abrader test (100 rev.; 5,4 N; CS-10F) | - | % Haze | 20 ... 30 |
| Coefficient of friction μ | - | - | |
| plastic/plastic | | | 0,8 |
| plastic/steel | | | 0,5 |
| stell/plastic | | | 0,45 |
| | | | |
| (dilatation spees of 5%/min; up to 2% dilatation; at 20°C) Poisson's ratio μ_b | - | - | 0,37 |
| Resistance to puck impact from thickness (FMPA Stuttgart – Germany) | similar to DIN 18032 | - | 12 mm |
| Sound velocity | - | m/s | 2700 ... 2800 |
| Weight sounded reduction index R _w at thickness | - | dB | |
| 4 mm | | | 26 |
| 6 mm | | | 30 |
| 10 mm | | | 32 |
| Optical Properties | | | |
| Transmittance ¹ D65 | DIN 5036 | % | ~ 92 |
| UV transmission | - | - | yes |
| Reflection loss the visible range (each surface) | - | % | 4 |
| Adsorption in the visible range | - | % | <0,05 |
| Refractive index n _D ²⁰ | - | - | 1,491 |
| ELECTRICAL PROPERTIES | | | |
| Volume resistivity | DIN VDE 0303 | ohm . cm | >1015 |
| Dielectric strength | | | |
| (1 mm specimen thickness) | DIN VDE 0303 | kV/mm | ~ 30 |

| | | | |
|---|-----------|----------|----------------------|
| Dielectric constant at 50 MHz at 0,1 MHz | DIN 53483 | - | 3.6 2.7 |
| Dielectric loss factor at 50 MHz at 0,1 MHz | DIN 53483 | - | 0.06 0.02 |
| THERMAL PROPERTIES | | | |
| Coefficient of linear thermal expansion | DIN 53752 | mm/m ° C | 0,7 |
| Possible expansion to heat and moisture | - | mm/m | 5 |
| Thermal conductivity at 20°C | DIN 52612 | W/(mK) | 0,19 |
| U-value for thickness: | DIN 4701 | W/m2K | |
| 1 mm. | | | 5,8 |
| 3 mm | | | 5,6 |
| 5 mm. | | | 5,3 |
| 10 mm. | | | 4,4 |
| Specific Heat | - | J/gK | 1,47 |
| Forming temperature | - | °C | 160 ...175 |
| Max. surface temperature (IR radiator) | - | °C | 200 |
| Max. service temperature (without mech. stress) | - | °C | 80 |
| Ignition temperature | DIN 51794 | °C | 425 |
| Fire rating (material thickness > 2 mm.) | DIN 4102 | - | B2, normal flammable |
| Heat deflection temperature under load (HDT) | - | °C | |
| deflection 1,8 Mpa | | | 105 |
| deflection 0,45 Mpa | | | 113 |
| Behavior Towards Water | | | |
| Water absorption (24 h. 20° C) from dry state; specimen 60 x 60 x 2 mm3 | DIN 53495 | mg | 41 |
| Max weight gain during immersion | DIN 53495 | % | 2,1 |