

- POLYSTYROL 454 C / GR2 -

| PROPERTIES | UNIT | TEST METHOD | VALUES |
|--------------------------------------|-------------------|-------------|--------|
| <u>Physical</u> | | | |
| Density | Kg/m ³ | | 1022 |
| Water absorption | % | | 0.1 |
| Moisture absorption | % | | 0.1 |
| <u>Mechanical</u> | | | |
| Tensile modulus | MPa | | 2200 |
| Yield stress, 50mm/min | MPa | | 26 |
| Yield strain, 50mm/min | % | | 1.4 |
| Nominal strain at break, 50mm/min | % | | 25 |
| Flexural modulus | MPa | | 2300 |
| Charpy impact strength +23°C | kJ/m ² | | 150 |
| Charpy impact strength -30°C | kJ/m ² | | 120 |
| Charpy notched impact strength +23°C | kJ/m ² | | 16 |
| <u>Thermal</u> | | | |
| HDT 1.8 MPa | °C | | 78 |
| HDT 0.45 MPa | °C | | 82 |
| Vicat softening temperature VST/B/50 | °C | | 82 |
| In flammability UL94 ép.1.6 mm | class | ISO 1210 | HB |
| <u>Electrical</u> | | | |
| Relative permittivity 100Hz | - | | 2.5 |
| Relative permittivity 1MHz | - | | 2.5 |
| Dissipation factor 100Hz | E-4 | | 1.5 |
| Dissipation factor 1MHz | E-4 | | 4 |
| Volume resistivity | Ohm*m | | >1E16 |
| Surface resistivity | Ohm | | >1E13 |
| | | | |
| | | | |
| | | | |
| | | | |

The values indicated are it with titles codes and do not engage to in no case the responsibility for company PHT



PLASTIQUES HAUTES TECHNOLOGIES

ZA de Malvaisin - 58 rue du Vercors – 38240 LE VERSOUD
Tél. (33) 04 76 776 990 - Fax (33) 04 76 776 994