

V 920T

| | | CONDITIONS | TEST METHOD | UNITS | |
|---------------------------------------|-------------|--------------|-----------------|-------------------|-------------------|
| 1 - GENERAL PROPERTIES | | | | | |
| Density | | | ISO 1183 | g/cm ³ | 1,19 |
| Water Absorption | | 23°C/50%HR | ISO 62 | % | 0,3 |
| Mould Shrinkage | long. | mm | ASTM D-955 | % | 0,2-0,6 |
| | transv. | mm | | | |
| 2 - RHEOLOGICAL PROPERTIES | | | | | |
| Rheology | | | | | |
| Melt Flow Index | | 230°C/3,8 kg | ISO 1133 | g/10 min | 6 |
| Process | | | | | |
| Melt Temperature | mini | | | °C | 220 |
| | maxi | | | | 230 |
| Mold Temperature | mini | | | °C | 70 |
| | maxi | | | | 80 |
| Drying Conditions | time | | | h | 2-4 |
| | temperature | | | °C | 70-80 |
| 3 - MECHANICAL PROPERTIES | | | | | |
| Rockwell Hardness | | | ASTM D-785 | | M-96 |
| Tensile Strength | | 23°C | ISO 527-1 | Mpa | 70 |
| Elongation at break | | 23°C | ISO 527-1 | % | 6 |
| Flexural Modulus | | 23°C | ISO 178 | GPa | 3,3 |
| Flexural Strength | | 23°C | ISO 178 | Mpa | 103 |
| Compressive Strength | | 23°C | ISO 604 | Mpa | 110 |
| Impact Resistance (Charpy, Notched) | | 23°C | ISO 179 1eU | kJ/m ² | 2 |
| Impact Resistance (Charpy, Unnotched) | | 23°C | ISO 179 1eU | kJ/m ² | 11 |
| Impact Resistance (Izod, Notched) | | 23°C | ISO 180/1a | kJ/m ² | 1,8 |
| 4 - OPTICAL PROPERTIES | | | | | |
| Refractive Index B | | | R-489 | | 1,49 |
| Light Transmittance | | | ASTM D-1003 | % | 92 |
| Haze | | | ASTM D-1003 | % | 0,5 |
| 5 - ELECTRICAL PROPERTIES | | | | | |
| Dielectric Strength | | | ASTM D-149 | MV/m | 19,7 |
| Dielectric Constant | | 60 Hz | ASTM D-150 | | 3,7 |
| Dissipation Factor | | 1 MHz | ASTM D-150 | | 0,04 |
| Surface Resistivity | | | ASTM D-527 | Ohm | >10 ¹⁴ |
| Volume Resistivity | | | ASTM D-527 | Ohm/cm | >10 ¹⁵ |
| 6 - THERMAL PROPERTIES | | | | | |
| Vicat Softening Temperature | | 50 N | ISO 306 | °C | 103 |
| HDT | | 1,82 Mpa | ISO 75-2 | °C | 95 |
| | | 0,45 Mpa | | | |
| Thermal Dilatation Coefficient | | [-30°C;23°C] | ISO/DIS 11359-2 | 10-6°C-1 | 65 |
| Specific Heat | | | | J/Kg-°C | 2093 |
| 7 - FLAMMABILITY | | | | | |
| Fire Resistance | | | ASTM UL/94 | Classe | HB |

(*) The values quoted are the average of results obtained under laboratory conditions and are given only as an indication to enable customers to make use of our products

