

Technical datasheet

PVC-U (polyvinyl chloride unplasticized) impact resistant

| Example of application |
|--|
| › container constructions, apparatus engineering, machine covers |

| Advantage | Disadvantages |
|--|--|
| › hardness und chemical resistance › low water absorption › weldability › good thermo-forming › high impact resistance | › low anti-friction properties › low continuous service temperature |

| Basic information | Specification |
|-------------------|---|
| Format | roundmaterial: on request sheets: 1 mm up to 30 mm available in 2 m x 1 m 1.5 mm up to 12 mm available in 3 m x 1.5 m |

| Physical properties | Standard term/Specification* | Unit | Testing method |
|---------------------|------------------------------|-------------------|----------------|
| Density | 1.42 | g/cm ³ | ISO 1183 |
| Moisture ingress | n.sp. | % | DIN EN ISO 62 |

| Mechanical properties | Standard term/Specification* | Unit | Testing method |
|-----------------------|------------------------------|-------------------|-----------------|
| Tensile strength | 55 | MPa | DIN EN ISO 527 |
| Elongation at break | n.sp. | % | DIN EN ISO 527 |
| E-module | 3.100 | MPa | DIN EN ISO 527 |
| Notch toughness | 4 | kJ/m ² | ISO 179 |
| Rockwellhardness | n.sp. | MPa | DIN EN ISO 2039 |

| Thermal properties | Standard term/Specification* | Unit | Testing method |
|--|------------------------------|------------------------------------|--|
| Thermal conductivity | 0.159 | W/(m·K) | DIN 52612 |
| Linear thermal expansion coefficient | 0.8 | K ⁻¹ · 10 ⁻⁴ | DIN 53752 |
| | 1.6 | mm | At initial length of 1.000 mm and a temperature difference of 20 °C. |
| Max. operating temperature, short-term | 60 | °C | |
| Min. operating temperature, long-term | n.sp. | °C | |
| Max. operating temperature, long-term | -20 | °C | |

| Electrical properties | Standard term/Specification* | Unit | Testing method |
|---------------------------|------------------------------|-------|----------------|
| Resistance | n.sp. | Ω·cm | DIN IEC 60093 |
| Outer surface coefficient | 10 ¹³ | Ω | DIN IEC 60093 |
| Puncture resistance | 39 | kV/mm | DIN EN 60243 |

| Legend |
|-----------------------|
| n.sp. = not specified |

Should you require binding and exact values, please ask for the appropriate factory certificate. This may incur additional costs. Please note that all specifications are standard values only, which are subject to production-related fluctuations.

*Higher specification on request.

All information based on current knowledge and experience. Information provided shall not exempt the contractor or user from conducting own tests. A legally binding warranty as to product features or its suitability for specific purposes may not be derived therefrom. Compliance with any proprietary rights as well as existing laws or regulations is the responsibility of the recipient of our products. No liability assumed for printing and any other errors. Technical data subject to change without notice. Reproduction or duplication of this document or its contents - whole or in part - is only permitted with express approval by company noltewerk. The German version of this data shall prevail. As of 1219.



technical
plastics