



Data Sheet Dexnyl® R-PEEK natural 450G - 51

Dexnyl® R-PEEK is excellently suited for high strength and high temperature molded parts in the injection molding and extrusion process used in the aerospace, automotive, electrical / electronics, engineering and marine, medical and chemical industries.

| Physical Properties | Standard | Unit | Value |
|------------------------|----------------|----------|------------------|
| MFI (380IC/5kg) | ASTM D1238 | g/10 min | 7 - 10 |
| Density at 23°C | ASTM D792 | g/cm³ | 1,30 |
| Breaking Strength | ASTM D638 | MPa | 90 |
| Elongation | ASTM D638 | % | 30 |
| Tensile Modulus | ASTM D638 | MPa | 3400 |
| Charpy Impact Strength | ASTM 256 | kJ/m2 | 7 C |
| Service Temperature | | | |
| Constantly | ASTM D648 | °C | 260 |
| Short Term (0,46MPa) | | °C | 315 |
| Flammability | UL 94/IEC60695 | | V-0 |
| Surface Resistivity | IEC 60093 | Ohm | 10 ¹⁴ |



The specified values are established from average values of several tests and they correspond to our today's knowledge. They are only to be used as information about our products and as help for the material selection. With these values, we do not ensure specific properties, or the suitability for certain application. No warranty, representation, guarantee or legally binding product description is provided by publishing this informational data.

For information about divergent properties do not hesitate to contact us. On request we advise you regarding the most appropriate component design and the definition of material specifications more suitable to your application data. Notwithstanding, the customer bears all the responsibility for the thorough examination of suitability, efficiency, efficacy and safety of the chosen products in pharmaceutical applications, medical devices or other end uses. Status: June 2019