



High Performance Polymers
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Data Sheet Dexnyl® R-PEEK natural 450G -49

Dexnyl® R-PEEK is excellently suited for high strength and high temperature molded parts in the injection molding and extrusion process used in the automotive, electrical / electronics, engineering and marine 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/cm ³	1,30
Breaking Strength	ASTM D638	MPa	90
Elongation	ASTM D638	%	30
Tensile Modulus	ASTM D638	MPa	3400
Charpy Impact Strength	ASTM 256	kJ/m ²	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

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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