



HEROFLON™
TECHNICAL FLUORINATED POLYMERS

Heroflon's PEEK Portfolio Overview

High Performing Polyether-Ether-Ketone



BENEFITS

- Operating through a wide range of temperatures
- Maintains its properties in extreme and hostile conditions
- Ease of processing: processable with conventional thermoplastic equipment
- As one of the highest performing thermoplastic is particularly suitable for a broad range of demanding applications
- Light weight, cost-effective and completely recyclable



PROPERTIES

- High temperature resistance from -200° to +260°C
- High mechanical strength: extremely tough
- Excellent wear resistance with low coefficient of friction
- Resistant to a wide range of chemicals and radiations
- Low moisture absorption and low permeability
- Excellent dielectric properties
- Extremely low smoke emissions
- Excellent dimensional stability



TECHNICAL ADVICE & TAILOR-MADE SOLUTIONS

- Possibility to develop customized compounds with a wide range of reinforcement fillers
- Possibility to create tailor-made formulations with Top Brands polymer base
- Heroflon's PEEK products meet latest regulations and they are compliant to RoHS
- Availability of grades with different melt flow rate
- Heroflon's PEEK products are available with Virgin or re-qualified polymer base
- Heroflon's R&D Dept. is at complete disposal of customers for technical support and special and personalized development projects



FOCUS ON TEMPERATURES

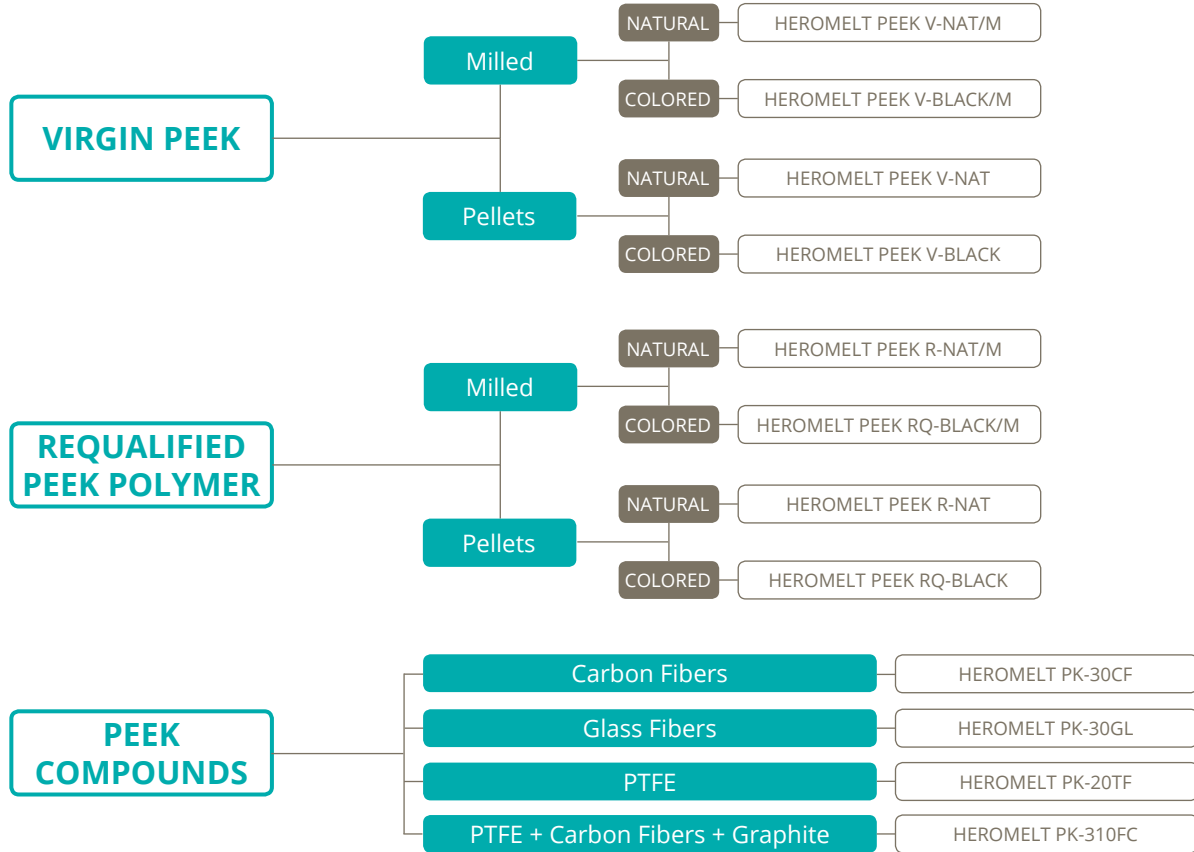
- GLASS TRANSITION TEMPERATURE **143°C ÷ 160°C**
- MELTING TEMPERATURE RANGE **338°C ÷ 348°C**
- OPERATING TEMPERATURES **-60°C ÷ 315°C**
- CONTINUOUS SERVICE TEMPERATURE **260°C**





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Heromelt™ PEEK Portfolio



*Available in milled or pelletized form and with Virgin or re-qualified polymer base

CUSTOMIZED FORMULATIONS UPON REQUEST

PROPERTIES	CONDITION	TEST METHOD	UNIT	Unfilled		Reinforced		
				PEEK R-NAT	PK-30CF	PK-30GL	PK-20TF	PK-310FC
Melting Point		ASTM D4591	°C	343	343	343	343	343
Glass Transition (T _g)	Onset	ASTM D4591	°C	143	143	143	143	143
Specific Gravity		ASTM D4894	-	1.30	1.40	1.50	1.40	1.44
Tensile Strength	23°C	ISO 527	MPa	95	200	160	90	130
Elongation at Break		ISO 527	%	37	2	3	25	3
Tensile Modulus	23°C	ISO 527	GPa	3.5	21	8	3.3	8
Charpy Impact Strength	Notched 23°C	ISO 179/1eA	kJ/m ²	7	8	8	6	8
Izod Impact Strength	Notched 23°C	ISO 180/A	kJ/m ²	8	10	10	7	9
Heat Deflection Temperature	1.8 MPa	ISO 75A/f	°C	152	325	315	160	315
Coefficient of Thermal Linear Expansion		ISO 11359	ppm/K	0.5	0.2	0.3	0.5	0.4
Coefficient of Friction		ISO 7149	MPa	0.45	0.31	0.35	0.24	0.20

NOTE: These are typical values not suitable for specification purposes

Important Notice

The user must evaluate whether a Heroflon product will be fitting for the intended application before using it, since the conditions of product use vary widely and are outside of Heroflon's control. If a Heroflon product is proved to be defective, Heroflon will have the option to replace the defective quantity or give an equivalent purchase price refund to the user. Heroflon is not responsible for any direct or indirect loss or damage, regardless of legal theory, including warranty, contract, negligence or strict liability.

Technical Information

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