

# TKG® FLON 20PEEK (PTFE + 20%PEEK)

Density 1,91 g/cm<sup>3</sup>

Colour Natural

Chemical Designation PTFE 80% ( Polytetrafluorethylene) + Peek 20%

PROPERTIES	RESULT	UNIT	PARAMETER	NORM USED
<b>Mechanical properties</b>				
Tensile strength	13 min.	MPa		ASTM D 4894
Tensile strength at yield	-	MPa	50 mm/min	DIN EN ISO 527-2
Elongation at yield	-	%	50 mm/min	DIN EN ISO 527-2
Elongation at break	35 min.	%		ASTM D 4894
Flexural strength	-	MPa	2 mm/min , 10 N	DIN EN ISO 178
Modulus of elasticity (flex test)	-	MPa	2 mm/min , 10 N	DIN EN ISO 178
Compression strength	-	MPa	1%	ASTM D 695
Deformation under load	-	%	140 Kg/cm <sup>2</sup> for 24 h. at 23°C	ASTM D621
Coefficient of static friction	-			ASTM D1894
Coefficient of dynamic friction	-			ASTM D1894
Permanent deformation	-	%	after 24 h. relaxation at 23°C	ASTM D621
Hardness	67 min.	Shore D		ASTM D2240
<b>Thermal properties</b>				
Coeff. Linear thermal expansion	-	10 <sup>-5</sup> /°C	25-100°C long	ASTM D696
Glass transition temperature	-	°C		DIN 53765
Service temperature	-200 / +260 min.	°C	Short term	
Service temperature	-200 / +260	°C	Long term	
<b>Electrical properties</b>				
Radiations resistance	-		Gamma rays	low
Volume resistance	-	Ω*cm		ASTM D 527
Dielectric strength	-	kV / mm	In air	ASTM D 149
Dielectric constant	-		50 – 109 Hz	ASTM D 150
<b>Miscellaneous properties</b>				
Ageing and weatherability	-			
Resistance to hot mater / bases	-			
Resistance to weathering	-			
Flammability (UL94)	-		According to	DIN IEC 60995-11-10

## MAIN CHARACTERISTICS

Better wear resistance  
 Better dimensional stability at high temperatures  
 Improved under load and permanent deformation  
 Low friction coefficient  
 Good chemical resistance

## INDUSTRY APPLICATIONS

Dynamic applications with high compression and chemical resistance

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