



Teflon® G461 – 15% Polyimide-Filled PTFE (aka Tekslide G461)

The lowest coefficient of friction in dry applications. Suitable for the machining of bearings and other sliding parts for the food industry or for any other use in contact with soft materials such as aluminum, copper alloys, inox steel, polymeric substrates, etc. Very good wear resistance, compression resistance, high flexibility and tensile strength, excellent insulating properties. It can be used in contact with food products.

TECHNICAL DATA SHEET

PROPERTIES	UNIT	METHOD	MOLDED
PHYSICAL - MECHANICAL			
Density	g/cm3	ASTM D792	1,85 - 2,05
Hardness - Shore D	/	ASTM D2240	≥ 55
Tensile strength CD	N/mm2	ASTM D4745	≥ 15
Elongation at break CD	%	ASTM D4745	≥ 250
Compressive strength at 1% deformation	N/mm2	ASTM D695	≥ 6
Deformation under load at room temperature 24hours at 13,7 N/mm2	%	ASTM D621	≤ 8
Permanent deformaton as above after releasing of 24 hours at room temeperature	%	ASTM D621	≤ 6
Dynamic Coefficient of friction (PV = 0,7 N/mm2 •m/s)	/	ASTM D3702	0,10 - 0,20
Wear factor (PV = 0,7 N/mm2 •m/s)	µm/h•N/mm2 •m•min	ASTM D3702	0,010 - 0,020
THERMAL			
Service Temperature (min-max)	°C	/	- 200 / + 260
Thermal expansion coefficient (linear) 25 - 100°C	10-5/°C	ASTM D696	9 - 11

Order Online at: www.professionalplastics.com/TeflonG461_15PI-FilledPTFE

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