

Tribocomp® PA66 AF15 TSO

polyamide 66

Tribocomp® PA66 AF15 TSO is an aramid fiber reinforced PA66 that is heat stabilized and friction and wear modified.

It can easily be processed on most injection molding machines.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Aramid Fiber
Additive	• PTFE Lubricant
Appearance	• Black
Forms	• Pellets

Physical	Typical Value	Unit	Test method
Density	1.23	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.80	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	1.6	%	ISO 62

Mechanical	Typical Value	Unit	Test method
Tensile Modulus			ISO 527-2
23°C	4200	MPa	
90°C	1200	MPa	
120°C	850	MPa	
Tensile Stress			ISO 527-2
Yield, 23°C	85.0	MPa	
Yield, 90°C	45.0	MPa	
Yield, 120°C	35.0	MPa	
Tensile Strain (Break, 23°C)	5.0	%	ISO 527-2
Flexural Modulus (23°C)	3400	MPa	ISO 178
Flexural Stress (23°C)	105	MPa	ISO 178
Coefficient of Friction			ASTM D3702
vs. Itself - Dynamic	0.13		
vs. Itself - Static	0.13		
Wear Factor	14	10 ⁻⁸ mm ³ /N·m	ASTM D3702

Impact	Typical Value	Unit	Test method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	30	kJ/m ²	ISO 179

Thermal	Typical Value	Unit	Test method
Heat Deflection Temperature			
0.45 MPa, Unannealed	245	°C	ISO 75-2/B
1.8 MPa, Unannealed	190	°C	ISO 75-2/A

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Thermal	Typical Value	Unit	Test method
CLTE - Flow (23°C)	5.0E-5	cm/cm/°C	ISO 7991
Thermal Conductivity	0.23	W/m/K	ISO 22007

Electrical	Typical Value	Unit	Test method
Electric Strength	30	kV/mm	IEC 60243-1
Comparative Tracking Index	600	V	IEC 60112

Extrusion	Typical Value	Unit
Cylinder Zone 1 Temp.	270 to 300	°C
Cylinder Zone 2 Temp.	275 to 295	°C
Cylinder Zone 3 Temp.	270 to 295	°C
Cylinder Zone 4 Temp.	280 to 310	°C

Notes

Typical properties: these are not to be construed as specifications.



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