



Technical Specs

Property	ASTM	Units [Metric]	Value [Metric]
General			
Specific gravity	D792	—	2.04
Hardness Shore D			66 - 69
Color			Black
Mechanical			
Tensile Strength MD†	D1708	psi [MPa]	1,500 [10.3]
Tensile Strength CD†	D1708	psi [MPa]	2,000 [13.8]
Elongation MD†	D1708	%	40
Elongation CD†	D1708	%	45
Compressive Strength			
@ 0.2% yield stress MD†	D695	psi [MPa]	1,700 [11.7]
@ 0.2% yield stress CD†	D695	psi [MPa]	1,350 [9.3]
Deformation under load			
600 psi, 500 °F, 24 Hrs MD†	D621	%	2.3
600 psi, 500 °F, 24 Hrs CD†	D621	%	9.4
Compressive Modulus MD†	D695	psi x 10 ⁵ [GPa]	1.65 [1.14]
Compressive Modulus CD†	D695	psi x 10 ⁵ [GPa]	1.35 [0.93]
Flexural Strength			
@ 0.2% yield stress CD†	D790	psi [MPa]	1,000 [6.9]
Flexural Modulus CD†	D790	psi x 10 ⁵ [GPa]	1.85 [1.28]
Thermal			
Thermal Conductivity	Cenco-Fitch	BTU in/hr ft ² °F [W/m.K]	4.37 [0.63]
Recommended Operating Limits			
Maximum PV (P x V)	—	psi x ft/min [MPa x m/s]	12,000 [0.42]
Working Temperature Range	—	°F [°C]	- 400 to + 550 [- 240 to + 288]

Coefficient of Thermal Expansion		x 10 ⁻⁵ m/m°C		x 10 ⁻⁵ in/in/°F	
ASTM D696		Cross Direction	Molded Direction	Cross Direction	Molded Direction
78 to 200 °F	26 to 93 °C	8.3	7.2	4.6	4.0
78 to 300 °F	26 to 149 °C	9.4	7.7	5.2	4.3
78 to 400 °F	26 to 204 °C	10.8	8.3	6.0	4.6
78 to 500 °F	26 to 260 °C	13.5	9.7	7.5	5.4

For more information on this or other high performance polymers from TriStar Plastics, contact our engineering department at 1-800-TRISTAR or visit our website at www.tstar.com.

† Cross Direction: Parallel to length of molded or extruded rod or tube.

† Molded Direction: Perpendicular to length of molded or extruded rod or tube.

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