



SERIES 77
Heat Shrink Boots



Compound Material Performance Specifications
Type 1 Material: 2025 Flame Retarded

A

GTS 4025: Oil Resistant and Flame Retarded, Heat-Shrinkable Elastomeric Compound
Temperature Range: -75°C to 150°C

This Quality Assurance Specification establishes the quality standard for a heat-shrinkable elastomeric compound used to manufacture Glenair® molded components. Dimensions of molded shapes are specified in SCD 770-001/2. All testing to be carried out on molded sheets 2mm thick unless otherwise specified. For system tests size S06 boots with 25 mm aluminum backshells and 10mm DR-25 (Raychem) jacketed cable shall be used. Adhesive type U from IEC 62329 shall be used (Glenair 779-001).

Installation Temperature: Minimum 135°C, Recovered 175°C

Compound 2025 Type 1 - Materials Specification		
Test	Test Procedure	Test Requirement
Visual Examination		Homogenous and essentially free from pinholes, bubbles, flaws, cracks and inclusions, color is black
Tensile Strength	IEC 62329-2	12Mpa minimum
Ultimate Elongation	IEC 62329-2	400% minimum
2% Secant Modulus	IEC 62329-2	80 – 160MPa
Specific Gravity	IEC 62329-2	1.4 Max
Heat Shock 4hrs at 215°C	IEC 62329-2	No dripping or flow Helical bend 20mm diameter, no cracking Tensile strength 12 MPa minimum Ultimate elongation 400% minimum
Heat Aging 168hrs at 160°C	IEC 62329-2	Tensile strength 12 MPa minimum Ultimate elongation 400 % minimum
Thermal Endurance 3000 hrs at 150°C	IEC 62329-2	Ultimate elongation 50% minimum low temperature
Low Temperature Flexibility 4hrs at -75°C	IEC 62329-2	No cracking
Flammability	IEC 62329-2	Time of burning < 15secs Length of burning < 25mm
Water Absorption 24hrs at 23°C	IEC 62329-2	0.5% maximum
Electric Strength	IEC 62329-2	12 MV/m minimum
Volume Resistivity After Damp Heat	IEC 62329-2	10 ¹³ ohms cms minimum
Copper Mirror Corrosion	IEC 62329-2	No corrosion
Fungus Resistance	IEC 62329-2	Tensile strength 12MPa min elongation at break 400% min



SERIES 77
Heat Shrink Boots



Compound Material Performance Specifications
Type 1 Material: 2025 Flame Retarded

A

Compound 2025 Type 1 - Materials Specification		
Test	Test Procedure	Test Requirement
Fluid Resistance 24hrs immersion in : ISO Octane/Toluene (70/30) at 40°C Lubricating Oil 0-156 at 100°C Lubricating Oil 0-236 at 100°C Lubricating Oil 0-190 at 70°C Aircraft Grease G-354 at 70°C Hydraulic Fluid H-515 at 70°C Damping Fluid S-1724 at 70°C Damping Fluid S-1720 at 40°C Brake Fluid H-542 at 50°C Hydraulic Fluid H-544 at 70°C Hydraulic Fluid Phosphate Ester at 23°C H-580 at 23°C De-icing Fluid S-745 at 70°C Anti Freeze Ethylene glycol/water at 70°C Turbine Fuel F-34 at 70°C Automotive Gasoline F-67 at 70°C Automotive Diesel ISO-1827 B at 70°C Propan-2-ol (S737) at 70°C	IEC 62329-2	Tensile Strength 10 MPa minimum Ultimate Elongation 300% minimum
Dimensional Stability 14 days at 40°C	IEC 62329-2	Measured dimensional values both expanded and recovered in specification
Dynamic Shear Room Temperature 100°C	IEC 62329-2	>300 N 10mm cable >100 N 10mm cable
Static Load Room Temperature 4hrs 20kgs 100°C 4hrs 5kgs	IEC 62329-2	<15mm movement 10mm cable <15mm movement 10mm cable
Peel Adhesion Boot to Adaptor Boot to Cable	IEC 62329-2	>60N/25mm >60N/25mm

Material is approved and qualified to VG 95343 part 16, AS5258 Material H, IEC 62329-2-102 and meets the requirements of SCX1511.