

Polyurethane T1 Thermocouple Insulated Wire (Ni90/Cr10)

Formula: Ni90/Cr10
Conductor Diameter: 0.05mm
Insulation: Polyurethane
Insulation Thickness: 0.005mm
Length: 20m
Product Shape: Thermocouple (May Be Used As One Component)
UOM Code: 021-492-31
SKU: 1000002546-group
Product Code: NI09-SW-000121

Material Properties for Alloys

Mechanical Properties

Element	Value
Elongation at break(%)	44
Modulus of elasticity(GPa)	186
Izod impact strength(J m ²)	108
Tensile strength(MPa)	620-780

Electrical Properties

Element	Value
Electrical resistivity(μOhmcm)	70.6
Temperature coefficient(K ⁻¹)	0.00032

Thermal Properties

Element	Value
Maximum use temperature in air(C)	1100
Melting point(C)	1420
Thermal conductivity(W m ⁻¹ K ⁻¹)	19@23°C
Coefficient of thermal expansion($\times 10^{-6}$ K ⁻¹)	17.2@20-1000°C

Physical Properties

Element	Value
Density(gcm ³)	8.5