

Adhesive tape S1030 (-80°C to +80°C)

The adhesive tape S1030 is a non-flame-retarded polyolefin-based hot-melt adhesive tape. The product is recommended for high flexibility at temperatures as low as -80°C. The tape is often pre-applied to moulded parts. Its pre-coat designation is /180. S1030 is recommended for marine applications where salt water is a threat. The adhesive is very user-friendly, exhibiting excellent flow when heated under normal installation conditions. It is not recommended where aggressive solvents may be present or for terminations under in-service flexural stress at temperatures above 40°C.



PROPERTY	UNIT	REQUIREMENT	METHOD OF TEST
PHYSICAL			
Visual		Pass	Section 4.3.1.1
Specific Gravity		1.0 max.	Section 4.3.1.2
Low Temperature Impact		-70 max	ASTM D 792
Brittleness	C	Pass	4.3.1.7, ASTM D 746
Blocking (Cohesive @ 55° C)			4.3.1.8
Adhesive Peel*	Pounds/inch width		ASTM D 1146
Polyethylene to Polyethylene		25 minimum	Notes 1,2
Neoprene to Neoprene		25 minimum	
PVC to PVC		15 minimum	
Polyethylene to Aluminum		25 minimum	Note 2B
CHEMICAL			
Water Absorption	Percent	1.0 maximum	Section 4.3.2.1
Corrosive Effect ¹		Pass	ASTM D 570
16 hours at 121° C (250° F)			Section 4.3.2.2
			ASTM D 2671
			Method B
Fungus Resistance		Rating of 1 or less	Section 4.3.2.5
			ASTM G 21

¹Use Thermofit RNF-100 to hold specimen in contact with mandrel.

<p>Solvent and Fluid Resistance</p> <p>Polyethylene to Polyethylene Peel Specimens</p> <p>24 hours at 23° C</p> <p>Followed by Adhesive Peel</p> <p>Hydraulic Fluid (MIL-H-5606)</p> <p>Hydraulic Fluid (MIL-H-46170)</p> <p>Lube Oil (Mil-L-7808)</p> <p>Lube Oil (Mil-L-23699)</p> <p>Cleaning Compound (PC 437)</p> <p>Lube Oil (VV-L-800)</p> <p>Anti-Icing Fluid (MIL-A-8243)</p> <p>5% Salt Water</p>	pounds/inch width	20 minimum	Note 3
<p>2 hours at 23° C</p> <p>Followed by Adhesive Peel</p> <p>Diesel Fuel #2</p> <p>JP-4 Fuel (MIL-T-5624)</p> <p>Decontamination Fluid DS-2</p>		20 minimum	Note 3
ELECTRICAL			
Volume Resistivity	ohm-cm	10 ¹⁰ min	Section 4.3.3.1 ASTM D 257
Dielectric Strength	volts/mil	500 min	Section 4.3.3.2 ASTM D 149