

3M Scotch-Weld™ 1099 Nitrile High Performance Plastic Adhesives

Category : Polymer , Adhesive

Material Notes:

Features: It is a medium viscosity grade for most brush or flow applications. Fast drying. Provides strong, flexible bonds. Resists weathering, water, fuels, oil and plasticizers. Bonds vinyl extrusions and sheeting. (May stain light colored vinyls.) Also bonds fabrics, foams and many plastics. (Not recommended for polyolefin plastic bonding). May be heat cured to obtain superior physical properties. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-Weld-1099-Nitrile-High-Performance-Plastic-Adhesives.php

Physical Properties	Metric	English	Comments
Solids Content	31 - 37 %	31 - 37 %	
Brookfield Viscosity	2000 - 4000 cP	2000 - 4000 cP	RVF #3 sp @ 10 rpm

Mechanical Properties	Metric	English	Comments
Shear Strength	3.22 MPa	467 psi	Overlap, 1/8" Alum/Alum
	@Temperature 121 °C	@Temperature 250 °F	
	4.19 MPa	607 psi	Overlap, 1/8" Alum/Alum
	@Temperature 93.0 °C	@Temperature 199 °F	
	4.43 MPa	643 psi	Overlap, 1/8" Alum/Alum
	@Temperature 82.0 °C	@Temperature 180 °F	
	6.18 MPa	897 psi	Overlap, 1/8" Alum/Alum
@Temperature 65.0 °C	@Temperature 149 °F		
Peel Strength	9.005 MPa	1306 psi	Overlap, 1/8" Alum/Alum
	@Temperature 24.0 °C	@Temperature 75.2 °F	
	20.61 MPa	2989 psi	Overlap, 1/8" Alum/Alum
	@Temperature -55.0 °C	@Temperature -67.0 °F	
	23.50 MPa	3409 psi	Overlap, 1/8" Alum/Alum
	@Temperature -34.0 °C	@Temperature -29.2 °F	
	0.614 kN/m	3.50 pli	180°, Canvas/Steel
@Temperature 82.0 °C, Time 1.81e+6 sec	@Temperature 180 °F, Time 504 hour		
1.23 kN/m	7.00 pli	180°, Canvas/Steel	

Mechanical Properties	Metric @Temperature 66.0 °C, Time 1.81e+6 sec	English @Temperature 151 °F, Time 304 hour	Comments
	2.89 kN/m	16.5 pli	180°, Canvas/Steel
	@Temperature 24.0 °C, Time 86400 sec	@Temperature 75.2 °F, Time 24.0 hour	
	3.07 kN/m	17.5 pli	180°, Canvas/Steel
	@Temperature -34.0 °C, Time 1.81e+6 sec	@Temperature -29.2 °F, Time 504 hour	
	4.12 kN/m	23.5 pli	180°, Canvas/Steel
	@Temperature 24.0 °C, Time 432000 sec	@Temperature 75.2 °F, Time 120 hour	
	4.56 kN/m	26.0 pli	180°, Canvas/Steel
	@Temperature 24.0 °C, Time 259000 sec	@Temperature 75.2 °F, Time 72.0 hour	
	4.82 kN/m	27.5 pli	180°, Canvas/Steel
	@Temperature 24.0 °C, Time 605000 sec	@Temperature 75.2 °F, Time 168 hour	
	5.26 kN/m	30.0 pli	180°, Canvas/Steel
	@Temperature 24.0 °C, Time 1.81e+6 sec	@Temperature 75.2 °F, Time 504 hour	
	5.43 kN/m	31.0 pli	180°, Canvas/Steel
	@Temperature 24.0 °C, Time 1.21e+6 sec	@Temperature 75.2 °F, Time 336 hour	

Thermal Properties	Metric	English	Comments
Flash Point	-18.0 °C	-0.400 °F	TCC

Descriptive Properties	Value	Comments
Appearance	Light tan	
Base	Nitrile Rubber	

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