

3M Jet-melt™ 3731 Polyolefin Bonding Adhesive

Category : Polymer , Adhesive

Material Notes:

3M™ Jet-Melt™ Polyolefin Bonding Adhesive 3731 is 100% solids, high heat resistant adhesive that bonds to a variety of substrates including polyethylene and many other plastics. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Jet-melt-3731-Polyolefin-Bonding-Adhesive.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	
Brookfield Viscosity	12000 cP	12000 cP	#276 sp @ 10 rpm

Mechanical Properties	Metric	English	Comments
Shear Strength	1.77 MPa	257 psi	Overlap, Polystyrene (High Impact)
	2.69 MPa	390 psi	Overlap, Cold Rolled Steel
	2.90 MPa	420 psi	Overlap, HDPE
	2.96 MPa	430 psi	Overlap, PVC (Rigid)
	2.96 MPa	430 psi	Overlap, Polycarbonate
	3.10 MPa	450 psi	Overlap, ABS
	3.28 MPa	475 psi	Overlap, Nylon 66
	3.38 MPa	490 psi	Overlap, Douglas Fir
	3.79 MPa	550 psi	Overlap, Polypropylene
Impact Test	9.04 J	6.67 ft-lb	
Peel Strength	2.63 kN/m	15.0 pli	180° Canvas to Polystyrene (High Impact)
	2.63 kN/m	15.0 pli	180° Canvas to Cold Rolled Steel
	3.16 kN/m	18.0 pli	180° Canvas to PVC (Rigid)
	3.33 kN/m	19.0 pli	180° Canvas to Nylon 66
	3.86 kN/m	22.0 pli	180° Canvas to Polypropylene
	3.86 kN/m	22.0 pli	180° Canvas to Polycarbonate
	4.03 kN/m	23.0 pli	180° Canvas to HDPE

Mechanical Properties	4.03 kN/m Metric	23.0 psi English	180° Canvas to ABS Comments
Thermal Properties	Metric	English	Comments
Flash Point	273 °C	523 °F	COC
Ring & Ball Softening Point	157 °C	315 °F	ASTM E28-607

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