



Product Data

Q-14 Elastomeric Hot Melt Adhesive

Issue Date: 11/03/2010

Purpose

This family of hot melt materials is designed for use as very aggressive tack lower cohesive strength pressure-sensitive adhesives. It has a very high "quick-stick" and tack properties, but only fair shear strength. It has very good environmental stability and moderate peel strength. It is ideal for use in many environments where a system is needed for difficult to adhere substrates especially in construction applications. It can be used as a backing for tapes, foams including Styrofoam and various materials where a pressure sensitive nature is needed. The viscosity is designed to allow it to be applied via foam melt, spray, or swirl-spray.

Composition

This pressure sensitive adhesive is comprised of mixed polymers and select resins and plasticizers.

Application

This compound is intended for use in a factory environment with a hot melt pump. It should be applied at a temperature range of 300 - 350°F. Unpigmented compound can be foamed. The application should be made with a Nordson FoamMelt unit (or similar equipment) at a setting of 300° - 325° F (140° - 163° C) and with the gas demand for the nitrogen cylinder should be set at 40 PSI.

Clean Up/ Precautions

Tools and equipment may be easily cleaned with mineral spirits.

Prolonged exposure to temperatures exceeding 375°F will result in a thermal breakdown of the compound and greatly reduce its physical characteristics and performance.

Packaging

This material is generally packaged in 55 gallon fiber or metal drums. It can also be shipped in 5 gallon fiber or metal pails or silicone-lined boxes.

Test Data

Color: Amber

Solids Content: 99.8% 1hour @ 350°

Ball & Ring: Q-14, 255± 10°F
Q-14-10, 270± 10°F
Q-14-10G, 270± 10°F

Viscosity(Aresrheometer):
@300°F - 20,000±5000cps
@325°F - 17,500±3000cps
@350°F - 15,000±2500cps

Peel: 6lbs. PSTC-1 @ 180°F

Application Temperature: 300° - 325°F

Service Temperature: -40°F to +160°F

Note: all tests were carried out a coating weight of 5 mils.

Shear: Greater than 100/lbs

Quick Stick: PSTC-3

Ployken Probe: 10-12lbs Dwell=1 sec/Seperation
1cm sec

Cold Temp Resistance: Excellent to -40°F

Moisture Resistance: 0%

Mechanical Stability: Excellent when material is controlled below a heat history of one hour at above its application temperature.

*It is recommended that a nitrogen blanket be used when carrying out any hot melt coating operation. If this is ignored, the physicals stated above will be lowered to some degree depending on how high and long the heat is maintained.



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Freight Classification

Caulking Compound, Class 55, Item No. 149610 "NOIBN" (No Red Label Required).

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