

 **NOVARAD[®] RC 21151****Product description**

UV-curable acrylic prepolymer. After curing the pressure sensitive adhesive combines medium to good peel adhesion properties with high shear resistance at elevated temperatures. Low odor and excellent ageing behavior.

Suggested use

Pressure sensitive adhesive for "clear-to-clear" no-label-look constructions.

FDA-Status

Meets composition requirements of indirect food additives regulation 21 CFR-175.105 „Adhesives“, and may stand in direct contact with dry and moist, non-fatty foodstuff (ISEGA certificate).

Application advice

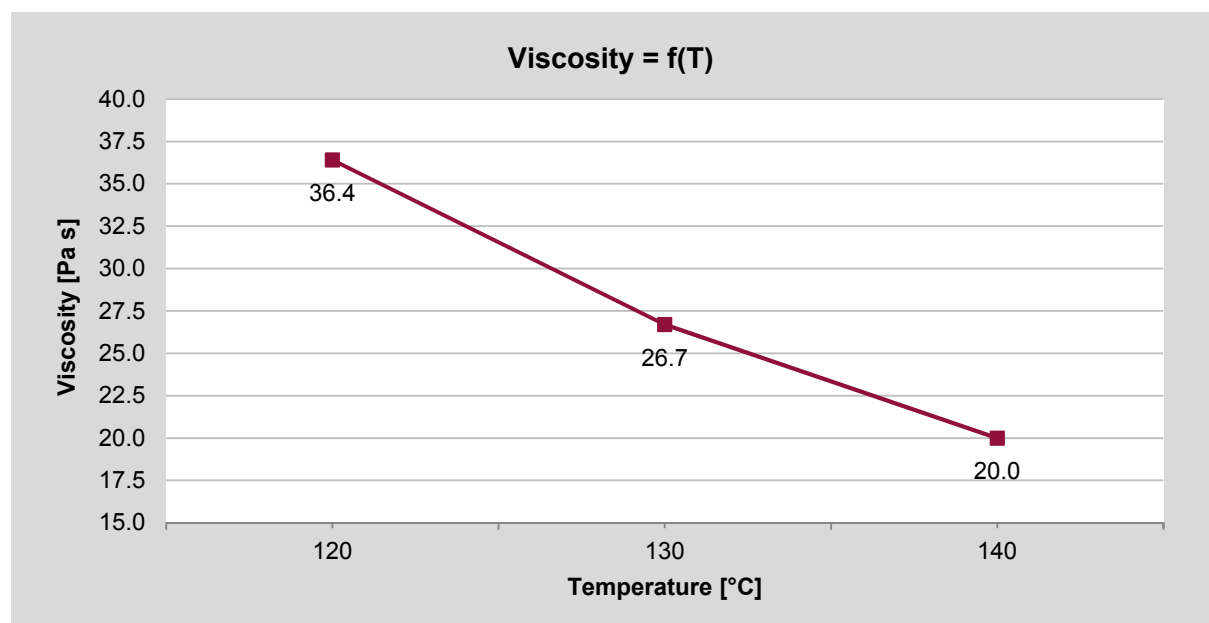
The product can be coated with roller-, slot die-coaters and contact less coating systems (curtain coating) at application temperatures varying between 110 °C and 140 °C. Only UV-curing possible. Medium pressure Hg-lamps suggested. No inert gas required during crosslinking. Dose control recommended.

Physical properties

Softening point (ASTM D36): semiliquid

Appearance: amber; transparent high viscose mass

Viscosity (D= 92.7 s⁻¹; Anton Paar MCR 300):



 **NOVARAD[®] RC 21151****Pressure sensitive properties of a 25 g/m²-coating on 23 µm polyester film:****Curing parameter**

Medium pressure Hg-bulb: Spectral, 240 W/cm

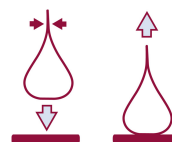
UV-C dose (250 to 260 nm): approx. 50 mJ/cm²**180° Peel adhesion to steel (FTM 1)**

after 20 min: 10 – 12 N/inch

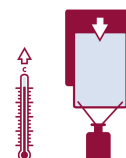
after 24 h: 13 – 15 N/inch

**Loop Tack on glass (FTM 9)**

14 – 16 N/inch

**Rolling Ball (PSTC 6)**

approx. 25 cm

**Shear adhesion to steel (FTM 8)**23 °C: > 24 h with 1 kg/inch²40 °C: > 24 h with 1 kg/inch²70 °C: 5.4 h with 1 kg/inch²**Shear adhesion failure temperature on steel (SAFT)**0.5 °C/min; 0.5 kg/inch²: > 180 °C**Packaging**

18 kg steel hobbocks, 190 kg steel drums, 900 kg IBC-container

Shelf life and storage

The product can be stored one year – starting from production date – in its original package under clean and dry conditions and protected from direct sunlight. Average storing temperature is suggested to be 25 °C or below. Storage temperature should not exceed 40 °C.

v1.1_09/11_DS (replaces all previous versions)

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