

PERFACTORY®

Technical Data

envisionTEC RC 25 (NanoCure)

The **envisionTEC** RC 25 is a high temperature resistant resin for building tough and stiff parts. It is used on all Perfactory® and Vanquish® systems.

Description

envisionTEC RC 25 is a nanoparticle filled material that is used to build hard-wearing, stiff and high temperature resistant parts. They have an opaque peach color appearance.

Application

envisionTEC is ideal for applications requiring superior stiffness and high heat deflection temperature, such as automotive components, pump housings and impellers, wind tunnel test parts, light reflectors, injections molds, hard chrome plating, et al.

Mechanical Properties

Method	Description	Value
D638M	Tensile Strength	46MPa
D638M	Elongation at Break	2.5 %
D638M	Modulus of Elasticity	4,890MPa
D790M	Flexural Strength	102MPa
D790M	Flexural Modulus	3,860MPa
D256A	Izod Impact-Notched	0.016 kJ/m ²
D695-02a	Maximum Compressive Strength	127MPa
D695-02a	Compressive Modulus	4,490MPa
D1004	Hardness (Shore D)	93.1 Shore
D570-98	Water Absorption	0.25 %

Cleaning, drying and post curing is to be carried out as described in **envisionTEC**'s postprocessing instructions for this material. Recommendation: use incubator. Post curing of parts in Otofash G 171 with 4,000 flashes.

Thermal Properties

Method	Description	Value
E1545-00	Glass Transition Temperature	42 °C (70 °C)
D648-98c	HDT @ 0.455MPa	67 °C (223 °C)
D648-98c	HDT @ 1.82MPa	53.6 °C (102 °C)

HDT = Deflection Temperature

All data provided is preliminary data and must be verified by the individual user.

