JINYU PACKAGING MATERIALS

Technical Data Sheet | JY-01

DOP-free foamed PVC sealing compound

Revision 2026.11 | English

Application and grade characteristics

Low-temperature grade for food-contact closure applications. The cured gasket has a springy, elastic feel and a translucent, gel-like finish. Jinyu reports a bake temperature 20-30 °C lower than conventional PVC foaming compounds in comparable applications, which can reduce oven heat demand. Actual energy use depends on the line.

A one-component, heat-curable PVC plastisol for metal lid grooves, including metal pail and drum lids. For compatible metal vacuum closures, lug caps and twist-off caps, evaluate cap sizes from 38-82 mm. Select compound weight and gasket profile to suit the lid, groove and filling process.

Processing parameters

Process	Reference bake temperature	Typical bake time
Injection or lining	165-200 °C	120-150 s

Use the compound at ambient temperature and stir uniformly while avoiding entrapped air. Record the oven setpoint and actual lid temperature separately. Validate the bake time and finished gasket on the production line using the actual lid, compound weight and filled product.

Typical material properties

Characteristic	Typical value	Method or remark
Appearance	Light yellow to off-white viscous liquid	Visual
Base polymer	PVC plastisol	
Plasticizer system	DOP-free ATBC/DOTP-based system	Adjustable to confirmed requirements
Viscosity at 25 °C	2,200 ± 700 mPa·s	NDJ/Brookfield; agree spindle and speed
Liquid density	1.24-1.30 g/cm³	Internal method based on ASTM D1475
Cured density	0.95-1.05 g/cm³	Internal method based on ASTM D792
Cured gasket color	White to off-white	Visual
Cured hardness	30-45 Shore C	Adjustable to suit closure design

Filling and post-treatment

Item	Reference for validated closure applications
Example filling goods	Tomato products, pickles, juices, sauces and condiments after validation
Hot fill	Up to 95 °C, subject to a finished-package test
Pasteurization	Up to 100 °C for 30 min, subject to a finished-package test
Retort or sterilization	Requires separate validation before use

Storage and packaging

Item	Information
Storage	Original sealed container at 5-35 °C. Protect from sunlight, heat, freezing, moisture, solvent contamination and off-odors. Use first-in, first-out stock rotation.
Shelf life	9 months from production in unopened packaging under recommended storage conditions
Packaging	22 kg pail or 250 kg steel drum. Other sizes by order confirmation.

Food-contact and product approval

Use this TDS as typical technical data. Request the regulatory documentation for the selected grade and destination market. Confirm compliance of the finished closure for the food type, gasket mass, cure, contact time and temperature, and filling process.