

BRJ-473

Description

BRJ-473 is a thermosetting phenolic resin used primarily in the formulation of nitrile rubber (NBR) adhesives. BRJ-473 is supplied as a solution in methyl-ethyl-ketone (MEK).

General Product Data

Product Specifications:

Solids Content, (%)	69-73
Brookfield Viscosity @ 25 °C, (cps)	1000-4500
Stroke Cure at 160 °C, (sec.)	50-70
Toluene Tolerance @ 25 °C, (ml)	30 min

Test Methods available upon request

Typical Properties:

Specific Gravity @ 77 °F	1.10
Physical Form	Liquid

Characteristics:

BRJ-473 can be easily blended directly into solutions of rubber.

Solubility:

BRJ-473 is soluble in ketones and esters. It is partially soluble in alcohols.

Application

BRJ-473 is completely compatible with all NBR rubbers. Adhesives based on combinations of BRJ-473 with NBR have excellent oil and vinyl plasticizer resistance, high bond strengths, and stable viscosity.

Storage And Shelf Life

BRJ-473 is a reactive resin and will increase in molecular weight and viscosity over time. This resin is stable for one year when stored at 40 °F (5 °C) or less.

Suggested Nbr Adhesive Formula

Part A: Rubber Base:

Material	Parts by Weight
Nipol® 1001 LG1	100
Sulfur	3
Benzothiazyl Disulfide	1.5

Mill and dissolve to 25 percent solids in MEK.

¹Product of Zeon Chemicals LP, Louisville KY

Part B: Resin Solution:

Reduce 50 parts (by weight) of BRJ-473 to 25% solids in MEK

Finished Adhesive:

Combine Part B with Part A and stir to mix.

Adhesives of this type have short open tack time and bonds must be completed while the adhesive is wet.

In general, this type of adhesive will have better heat resistance if NBR with a higher acrylonitrile content is used.

Packaging

BRJ-473 is packaged in non-returnable steel drums at 508 pounds (230 kilograms) net weight.

Safety And Regulatory Information

For a current Safety Data Sheet (SDS) or other regulatory information, contact SI Group, Inc. at productinfo@siigroup.com.