TECHNICAL DATA SHEET

DYMEREX™ Polymerized Rosin

Dymerex™ modified gum rosin is a pale, acidic, thermoplastic, high softening point resin. It is composed predominately of dimeric acids derived from rosin with lesser amounts of monomeric resin acids and neutral materials of rosin origin. Dymerex™ modified resin has high resistance to oxidation and does not crystallize from solutions or from solid compositions. It is compatible with many natural and synthetic film formers and rubbers. Being an acidic resin, it reacts readily with polyalcohols or hydrated lime to yield high melting derivatives.

- Alcohol-soluble
- Non-crystalline
- Resistant to oxidation
- Thermoplastic rosin acid
- Very high softening point

For further information regarding this product please refer to:

Synthomer Adhesive Technologies

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Property	Typical Value	Unit	Method[1]
Description, Base Resin	Dimerized Gum Rosin		
Ring and Ball Softening Point	144	°C	ASTM E 28
Color, Gardner	9		50% solids in toluene or xylene
Color, USRG Rosin Scale	N		
Acid Number	145	mg KOH/g	
Molecular Weight Distribution, Mn	412		Molecular weight measured via GPC
Molecular Weight Distribution, Mw	487		
Molecular Weight Distribution, Mz	582		
Molecular Weight Distribution, Mw/Mn	1.18		
Density at 20°C	1.069	kg/L	
Melt Viscosity at 210°C	145	cP	Brookfield
Melt Viscosity at 190°C	740	cP	
Melt Viscosity at 170°C	7,000	cP	
Melt Viscosity at 150°C	153,000	cP	

[1] internal method based upon the specified norm

Applications

Adhesives, Caulks and Sealants, Packaging specialities, Carpet, Packaging, Graphic inks, Film Modification, Labels, Tapes, Other coatings, Plastic Modification, Roadmarking, Roofing, Other adhesives , Speciality tapes, Tire components, Wax Modification, Wire and cable

Compatibility and Solubility

Compatible with ethylcellulose, natural rubber, SBR (styrene-butadiene), polychloroprene, drying oils, alkyd resins, shellac, low molecular weight polyethylene, paraffin and microcrystalline waxes.

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Soluble in aromatic, aliphatic and chlorinated hydrocarbons, esters, ketones, and higher molecular weight alcohols. Insoluble in methanol, ethanol, isopropanol and water.

Packaging

Dymerex™ Polymerized Rosin is packed in aluminum-kraft-bags of 25 kg net, and supplied on shrink-wrapped pallets of 28 bags each.

Storage

Because of the extremely large surface area they present, flaked forms of resins are prone to gradual oxidation, some more so than others. This could result in darkening and/or it could have an adverse effect on solubility in organic solvents. It is strongly recommended that strict control of inventory be observed at all times, taking care that the oldest materials is used first.
Dymerex™ Polymerized Rosin material will remain within product specification limit for a period of at least 18 months after shipment from Synthomer's production facilities, provided storage conditions outlined in this data sheet are observed. However, as we can neither anticipate the conditions under which the resin is processed nor the end use applications for which it is used, we recommend that the material be tested upon receipt.

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