

Product Name : HRPB550

Revision Date : January 1, 2016

### Product Specifications

Test Item	Unit	Test Method	Specification
Color(AHPA)	–	ASTM D1209	Max 50
Viscosity(100°C)	cSt	ASTM D445	27 ~ 33
Molecular Weight(Mn)	–	GPC	540 ~ 620
α-Vinylidene	%	<sup>1</sup> H NMR	Min 75
Total Vinylidene	%	<sup>1</sup> H NMR	Min 80
Flash Point(COC)	°C	ASTM D92	Min 130
Acid Number	mgKOH/g	ASTM D664	Max 0.01
Water	wt-ppm	ASTM D6304	Max 40

### Properties of DAELIM PolyButene

- Water-White Color (transparent viscous liquid)
- Non Odor & Non-Toxic & High Purity
- Tacky
- Hydrophobic & Inertness
- Excellent Stability of Oxidant and UV Light
- Superior Shear Stability
- Excellent Electrical Insulating Properties
- Great Water Repellency (very low moisture transmission rates)
- Outstanding Lubricity & Permanently Non-Drying
- Clean Decomposition & No Residue
- Low Pour Points & Superior Viscosity Index(VI)
- Non-Staining Characteristics (non-corrosive)

### Typical Properties

Item	Unit	Test Method	Typical Value
Color(AHPA)	–	ASTM D1209	10
Kinematic Viscosity(100°C)	cSt	ASTM D445	30
Molecular Weight(Mn)	–	GPC(Gel Permeation Chromatography)	590
α-Vinylidene	%	<sup>1</sup> H NMR	80
Total Vinylidene	%	<sup>1</sup> H NMR	87
Flash Point(COC)	°C	ASTM D92	140
Specific Gravity(60/60°F)	–	ASTM D4052	0.890
Acid Number	mgKOH/g	ASTM D664	LT 0.01
Water	wt-ppm	ASTM D6304	20

### Important Notice to User

The result on this technical data are reliable under the limited conditions and methods mentioned. It should be needed the user to get suitability for commercial use.

### Application

- Additives
  - Lubricant Oil Additive(Dispersant), Fuel Additive(Detergent)
  - Emulsifier(Explosive Emulsifier)
  - LOA, FA & Emulsifier intermediate  
(polyisobutenyl succinic anhydride, PIBSA) prepared from HRPB
- Lubricants
- Adhesives
- Polymer(HIPS) / Rubber / Asphalt Modification
- Rat/Fly Trapping component
- Caulks & Sealants
- Stretch Wrap/Silage Film
- Electrical Insulation

## Cautions and Recommendations

**Preliminary statement** For safe handling information on this product, consult the Material Safety Data Sheets (MSDS)

### Handling

- Wear protective gloves/ protective clothing/ eye protection/ face protection
- Maintain below flash point, protect to leak of liquid or vapor.
- Keep away from open flames, shut off the production of source of ignition (electricity/static electricity sparks/heat/material of high-temperature)
- Ground/bond all container and receiving equipment, use equipment of prevention of explosion.
- Do not breathe vapor or mist when using this material. Avoid prolonged or repeated contact with skin. Avoid contact with eyes.
- Empty containers may contain harmful, flammable/combustible or explosive residue or vapors.
- Wash thoroughly after handling.

### Storage

- Keep container tightly closed in a cool, well-ventilated place.
- Keep container tightly closed before use.
- Avoid contact with incompatible materials.
- Keep away from heat, sparks, open flames, source of ignition.
- Suitable storage materials : mild steel/ carbon steel

### Hazards Identification

- GHS Classification : Not Classifiable
- GHS label elements
  - Hazard symbols : Not Classifiable
  - Signal word : Not Classifiable
  - Hazard statement : Not Classifiable
  - Precautionary statements : Not Classifiable
- Other hazards which do not result in classification
  - May causes irritation if contact with eyes, skin, mucous membranes.
  - If contact with non-refrigerated product, may causes burns.
  - NFPA Classification(0~4 steps) : Health=1, Flammability=1, Reactivity=0
  - HMIS Classification(0~4 steps) : Health=1, Flammability=1, Reactivity=0

## Health and Safety

**Health and Safety** Guidance on Health and Safety are available on the appropriate Material Safety Data Sheets (MSDS) that can be obtained from DAELIM Industrial Co., Ltd. representative.

Understand the Material Safety Data Sheets (MSDS) for additional information on personal protective equipment and for safety, health, environmental & toxicology information, first aid measures, ecological & regulatory information.

If additional information is required, please contact the below.

### Contact Information

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### Visit Us at Our Website

For the most direct access to local sales and technical support visit:  
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