

# Soy Based Coupling Agents

## Description

Engineered soy-based resin with maleic anhydride functionality and high melting point recommended as a coupling agents for polymer composites. These soy based resins are solid particles, which generally can be handled easily and dosed more accurately compared to maleated soybean oil.

## Features and Benefits

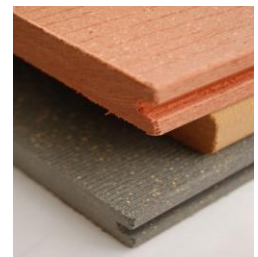
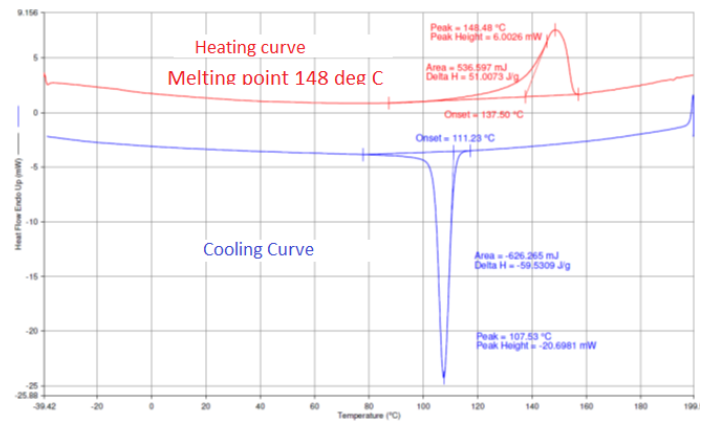
- Ease of handling (Solid form)
- Compatible with polyolefins, nylon and polyesters
- Coupling agents for polymer/polymer and polymer/filler reinforcement
- Adhesion promoter for coatings
- Dispersing agents for powder coating and tonners

## Application Areas

- Building & Construction
- Automotive
- Polymer and rubber modification

## Resin Properties

Measurement	Method	Soy-PK
Color	Visual	Amber
Density (g/mL)	ASTM D-4052	1.07
Viscosity @ 19°C (cPs) 100% solids	ASTM D-445	264,000
Viscosity @ 19°C (cPs) 50% solids in MEK	ASTM D-445	20



## Typical Physical Properties

Properties	Soy Based Coupling Agent	Petro Based Coupling Agent	Unit
Melt Flow Rate @ 190°C 2.16Kg	162	Not reported	g/10 min
Viscosity (AR2500, 190 °C, 60 s <sup>-1</sup> )	214	214	cP
Melting Point (DSC)	148	151	°C
Acid Value	52	47	g KOH/ g sample

