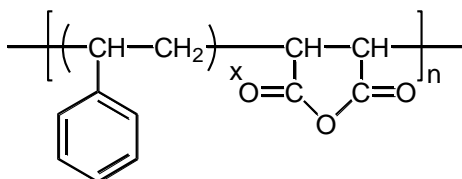


## Technical Data Sheet: SMA<sup>®</sup> EF-40 Flake

### STYRENE MALEIC ANHYDRIDE COPOLYMER



#### DESCRIPTION

SMA<sup>®</sup> EF-40 Flake is a low molecular weight styrene, maleic anhydride copolymer with ca. 4:1 mole ratio. SMA EF-40 can be utilized to modify melt flow, improve coupling, and to better disperse fillers and pigments in thermoplastics. It also offers improved impact and heat distortion temperature properties in thermoplastic materials.

#### PRODUCT HIGHLIGHTS

Well defined reactivity  
High purity

#### PERFORMANCE PROPERTIES

Excellent electrical properties  
Low metal ion content  
Low chloride ion content

#### SUGGESTED APPLICATIONS

Epoxy laminates  
Polymer composites  
Polymer modification  
Powder coatings

<b>SMA<sup>®</sup> EF-40 Flake</b> <b>TYPICAL PHYSICAL AND</b> <b>CHEMICAL PROPERTIES</b>
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Appearance	Off-white Flake
Acid Number, mg KOH/gm	215
Color, Gardner scale	1
Tg, °C	115
Resin Molecular Weight, M <sub>n</sub>	4500
Resin Molecular Weight, M <sub>w</sub>	10500
Kinematic Viscosity, cts	0.80
Non-volatiles, % min.	99
Metal ion (sodium, magnesium, or iron), ppm	<10
Chloride Ion, ppm	<20
Residual Styrene, wt. %	<0.1
Residual Maleic Anhydride, wt. %	<0.01
Solubility, gms./100 ml	
Solvent at 25 °C	
n-Hexane	<1
Toluene	<15
Ethanol – 190 proof	<1
Acetone	>50
MEK	>50
THF	>50
Ethyl Acetate	>50

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