

## Solvay RHODAFAC® PE-510 Surfactant

Category : Fluid , Other Engineering Material , Additive/Filler for Polymer

### Material Notes:

Chemical Name: POLYOXYETHYLENE NONYLPHENYL ETHER, BRANCHED, PHOSPHATE CAS: 68412-53-3, 68412-54-4, 7664-38-2, 7732-18-5 Available in: Asia Pacific, Europe, Latin America and North America Applications: RHODAFAC PE-510 can be used to prepare a broad range of commercial emulsion polymers including acrylics, vinyl-acrylics and styrene-acrylics. Such polymers find application in latex paints, adhesives, paper coatings and textiles. Rhodafac PE-510 is typically converted to its salt form (sodium, ammonium, amine) for use in emulsion polymerization. This is usually done in-situ by neutralization of the diluted phosphate ester with the desired base. Films of polymers made with Rhodafac PE-510 exhibit enhanced corrosion resistance and superior heat and light stability, which makes them especially desirable for metal coating applications. The versatility of Rhodafac PE-510 allows it to be used with a wide range of polymerization techniques, including thermal and redox processes. When properly used in conjunction with other anionic and nonionic surfactants, Rhodafac PE-510 allows for the trouble-free commercial production of extremely stable emulsion polymers. Information provided by Rhodia, Rhodia has been acquired by Solvay.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-RHODAFAC-PE-510-Surfactant.php](http://www.lookpolymers.com/polymer_Solvay-RHODAFAC-PE-510-Surfactant.php)

Physical Properties	Metric	English	Comments
Solids Content	100 %	100 %	
Surface Tension	32 dynes/cm	32 dynes/cm	at CMC

Chemical Properties	Metric	English	Comments
Total Acid Number	50 - 55	50 - 55	KOH to First INFL. PT.; RP-0427

Processing Properties	Metric	English	Comments
Moisture Content	<= 0.80 %	<= 0.80 %	Karl Fisher; RP-0327
Shelf Life	12.0 Month	12.0 Month	

Descriptive Properties	Value	Comments
Appearance	Clear liquid	at 35°C, RP-0064
	Clear to slightly hazy viscous liquid	at 25°C, RP-0064
Color	<200	APHA, RP-0134
Composition	Nonionic Content	24-36%, RP-0351
Critical Micelle Concentration	0.0001	
Ionic Charge	Anionic	

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