

# NORYL™ SA90 resin

Polyphenylene Ether  
SABIC Innovative Plastics

Message:

NORYL SA90 resin is a modified low molecular weight resin with increased hydroxyl functionality. It is designed specifically for use as a reactive component in epoxy and cyanate ester thermosets in electronic, coatings, adhesives, and composites applications. It has outstanding solubility in toluene & methyl ethyl ketone (MEK) and a low solution viscosity. Targeted application areas are in enhancing the performance (e.g. thermal, dielectric, mechanical, flame retardancy, and moisture uptake properties) of epoxy resins used in electronic packaging which include PCB laminates, copper clad laminates, epoxy prepregs, and protective coatings as well as various other composites applications.

General Information			
Features	Low Molecular Weight		
	Low Viscosity		
Uses	Electrical/Electronic Applications		
	Packaging		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.02	g/cm <sup>3</sup>	ASTM D792
Hydroxy Equivalent Weight (HEW)	840	g/mol	Internal Method
Intrinsic Viscosity	0.090	dl/g	Internal Method
Mn	1600		Internal Method
Phenolic End-group Content	2	%	Internal Method
Solubility			Internal Method
Methyl Ethyl Ketone : 21°C	50.0	wt%	
Toluene : 21°C	50.0	wt%	
Tg (half width)	140	°C	Internal Method
Viscosity			Internal Method
50 wt% in methyl ethyl ketone : 25°C	160	mPa·s	
50 wt% in toluene : 25°C	298	mPa·s	
Electrical	Nominal Value		Test Method
Dielectric Constant (1 MHz)	2.54		ASTM D150
Dissipation Factor (1 MHz)	7.0E-4		ASTM D150

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