

Properties of IDEMITSU petroleum resin **I-MARV S-100**

Physical Properties	Relative density	ISO 1183	1.048
	Melt flow index MFI	g/10 min	ISO 1113
	Relative solution viscosity	DIN 51 562	
	Average molecular weight Mn (GPC)	g / mol	510
	Average molecular weight Mw (GPC)	g / mol	1120
	Softening point	°C	100
	Colour	HAZEN	
GARDENER			1
Chemical Characterisation	Aniline point	°C	
	Mixed methylaniline point (MMAp)	°C	
	Diacetone cloud point (DACP)	°C	
	Melt cloud point	°C	
	Bromine number		< 8
	Iodine number		
	Aromatics content	wt-%	< 19
	Acid value	mg KOH / g	< 0.01
	Ash content	wt-%	< 0.01
	Flash point	°C	212

Solubility		Benzene	Toluene	Xylene	n-Hexane	Cyclohexane	Mineral spirit
	20 %	+++	+++	+++	+++	+++	+++
	50 %	+++	+++	+++	+++	+++	+++
		Ethanol	i-Propanol	n-Butanol	n-Octanol	CCl ₄	CH ₂ Cl ₂
	20 %	-	-	-	-	+++	+++
	50 %	-	-	-	-	+++	+++
		Acetone	Ether	Dioxane	Pyridine	Aniline	Ethyl acetate
	20 %	-	+++	+++	+++	-	-
	50 %	-	+++	+++	+++	-	-
Compatibility (at 25 °C)		EVA	Polybutene	PE	PP	Terpene resin	Rosin
	25 %	-	+++	-	-		
	50 %	-	+++	-	-	-	+++
	75 %	-	+++	-	-		
(at 180 °C)		EVA	Polybutene	PE	PP	Vaseline	Epoxy resin
	25 %	+++	+++	-	-		
	50 %	+++	+++	-	-	+++	-
	75 %	+++	+++	-	-		
(at PET-film)		EVA	SIS	SEBS	SBS	Natural rubber	Butyl rubber
dispersed from toluene	25 %	+++	+++	+++	+++	+++	+++
	50 %	+++	+++	+++	+++	+++	+++
	75 %	+++	+++	+++	+++	+++	+++

+++ very good ++ good + insoluble / compatible - insoluble / not compatible