

Properties of IDEMITSU petroleum resin **I-MARV P-115**

| | | | |
|----------------------------------|-----------------------------------|------------|----------|
| Physical Properties | Relative density | ISO 1183 | 1.030 |
| | Melt flow index MFI | g/10 min | ISO 1113 |
| | Relative solution viscosity | DIN 51 562 | |
| | Average molecular weight Mn (GPC) | g / mol | 590 |
| | Average molecular weight Mw (GPC) | g / mol | 1180 |
| | Softening point | °C | 115 |
| | 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 | | < 5 | |
| Iodine number | | | |
| Aromatics content | wt-% | 1 ... 5 | |
| Acid value | mg KOH / g | < 0.01 | |
| Ash content | wt-% | < 0.01 | |
| Flash point | °C | 218 | |

| 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