

**Description:** EPS group are epoxy – terminated medium to high viscosity liquid polysulfide polymer to use in formulation alone or together with other liquid solvent free and solvent based epoxy resins to increase flexibility, adhesion and impact resistance

**Properties:**

| Appearance                  | Viscosity<br>(25°C -cPs) | EEW<br>g/eq | Density<br>(g/cm <sup>3</sup> ) | Volatile<br>Max% | Odor |
|-----------------------------|--------------------------|-------------|---------------------------------|------------------|------|
| Clear amber<br>Light yellow | 70000                    | 335         | 1.15                            | 0.5              | mild |

**Curing:** these resins can be cured with almost any epoxy resins curing agents such as different types of aliphatic or cycloaliphatic amins and amides – acidanhydrides and etc...

The results of the different (EPS) ratio from 0 to 100 WT % in a general Epoxy resin (EEW-190)

| EPS-Epoxy                  | 0-100   | 20-80   | 40-60    | 60-40    | 80-20  | 100-0 |
|----------------------------|---------|---------|----------|----------|--------|-------|
| EEW-g/eq                   | 190     | 208     | 229.8    | 256.65   | 290.64 | 335   |
| Curing agent<br>F205(phr)  | 54.7    | 50      | 45.7     | 40.5     | 35.8   | 31    |
| Hardness<br>(shoreD)       | 84      | 83      | 81       | 60       | 25     | 20    |
| Tg (c°)                    | 92.58   | 118.91  | 98.42    | 90.09    | 35.27  | 47-78 |
| Elongation at<br>break%    | None    | 2       | 6        | 40       | 65     | 80    |
| Lap shear<br>strength(psi) | 704±111 | 1137±86 | 1563±121 | 1076±124 | 727±83 | 202±9 |

\*100gr mixture of resin and hardener in 25°C

**Application:** EPS group are used for manufacturing of flexible ,impact – resistant ,crack bridging and corrosion Resistant Coating,Adhesive,Sealant and Composite being used in industrial, marin and protective Coatings,Casting and tooling and high performance adhesives and sealant formulations

**Packaging:** EPS group polymers are available in 200 Liter drums , and 1000 Liter IBC

**Storage& Shelf life:** Store the container in cool and dry area, **keep it closed when not in use** .  
Shelf life under appropriate storage conditions min 12 months



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