



## Technical Data Sheet : PFA P12J E

|                                 |                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Material                        | Perfluoroalkoxy                                                                                                                                                                                                                                                                                                                                                                       |
| General Qualities               | <p>Chemically modified P12J to give a specialist resin. End-capped to give fully fluorinated terminal groups, minimal presence of fluoride or metal ions. Ultra high purity suitable for semi-conductor and other applications where ionic activity must be at a minimum.</p> <p>Chemically inert except to molten alkali metals, high temp and press fluorine and CF<sub>4</sub></p> |
| Packaging Storage and Transport | <p>PE bags inside rigid circular drums, 25kg net/drum</p> <p>Labels : quality certificate, brand, trademark, type, grade, lot, weight of contents, pack date.</p> <p>Store in clean, dry warehouse. Avoid excessive heat, cold, moisture, and rough handling.</p>                                                                                                                     |

| Material Properties | Typical properties - Testing according to ASTM |                     |         |
|---------------------|------------------------------------------------|---------------------|---------|
| Tensile Strength    | D638                                           | ≥28                 | MPa     |
| Elongation at Break | D638                                           | ≥300                | %       |
| Bulk Density        | D1895                                          | ≈1.2                | g/l     |
| Material Density    | D792                                           | 2.15 +/- 0.03       | g/cc    |
| Hardness            | D2240                                          | 55+/-5              | Shore D |
| Melting Point       | D3418                                          | 305±5               | °C      |
| MFR                 | D2116 /D1238                                   | 14-18               | g/10min |
| Volume Resistance   | D257                                           | >1x10 <sup>17</sup> | Ωcm     |
| Surface Resistance  | D257                                           | >1x10 <sup>17</sup> | Ω       |
| Dielectric Strength | D149                                           | 35                  | kV/mm   |
| Dielectric Constant | D150                                           | 2.0                 |         |

|        |                                                                                                                                                                                                                                                                                                                                                                          |
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| Safety | <p>If heating above 290 °C, small amounts of decomposition products can fume to give HF gas. Avoid inhalation of these fumes. Processing equipment and surrounding area should be adequately ventilated.</p> <p>Smoking must be avoided.</p> <p>Avoid inhalation or eye contact with airborne powder. If this happens, irrigate immediately and seek medical advice.</p> |
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