

## Kolon ELLAS K-590A Caprolactone Based Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP

### Material Notes:

Applications Extrusion Injection Dust Seal Oil Seal Information provided by API-Kolon.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kolon-ELLAS-K-590A-Caprolactone-Based-Thermoplastic-Polyurethane.php](http://www.lookpolymers.com/polymer_Kolon-ELLAS-K-590A-Caprolactone-Based-Thermoplastic-Polyurethane.php)

| Physical Properties | Metric    | English   | Comments  |
|---------------------|-----------|-----------|-----------|
| Specific Gravity    | 1.18 g/cc | 1.18 g/cc | ASTM D792 |

| Mechanical Properties | Metric                    | English                   | Comments   |
|-----------------------|---------------------------|---------------------------|------------|
| Hardness, Shore A     | 90                        | 90                        | ASTM D2240 |
| Tensile Strength      | 46.1 MPa                  | 6680 psi                  | ASTM D412  |
| Tensile Stress        | 9.32 MPa<br>@Strain 100 % | 1350 psi<br>@Strain 100 % | ASTM D412  |
| Elongation at Break   | 500 %                     | 500 %                     | ASTM D412  |
| Tear Strength         | 137 kN/m                  | 784 pli                   | ASTM D624  |

| Processing Properties | Metric        | English       | Comments          |
|-----------------------|---------------|---------------|-------------------|
| Nozzle Temperature    | 190 - 200 Â°C | 374 - 392 Â°F | Injection Molding |
| Zone 1                | 155 - 175 Â°C | 311 - 347 Â°F | Extrusion Molding |
|                       | 160 - 175 Â°C | 320 - 347 Â°F | Injection Molding |
| Zone 2                | 170 - 180 Â°C | 338 - 356 Â°F | Extrusion Molding |
|                       | 175 - 185 Â°C | 347 - 365 Â°F | Injection Molding |
| Zone 3                | 180 - 190 Â°C | 356 - 374 Â°F | Extrusion Molding |
|                       | 185 - 195 Â°C | 365 - 383 Â°F | Injection Molding |
| Zone 4                | 185 - 195 Â°C | 365 - 383 Â°F | Extrusion Molding |
| Die Temperature       | 185 - 195 Â°C | 365 - 383 Â°F | Extrusion Molding |
| Head Temperature      | 190 - 200 Â°C | 374 - 392 Â°F | Extrusion Molding |

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