

Kolon ELLAS K-796A Ester Based Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Polyester Grade

Material Notes:

Applications Extrusion Injection Pneumatic Hose Transparent Hose Industry Parts Information provided by API-Kolon.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kolon-ELLAS-K-796A-Ester-Based-Thermoplastic-Polyurethane.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|-----------|-----------|
| Specific Gravity | 1.22 g/cc | 1.22 g/cc | ASTM D792 |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|---------------------------|---------------------------|------------|
| Hardness, Shore A | 96 | 96 | ASTM D2240 |
| Tensile Strength | 49.0 MPa | 7110 psi | ASTM D412 |
| Tensile Stress | 14.7 MPa @Strain 100 % | 2130 psi @Strain 100 % | ASTM D412 |
| Elongation at Break | 450 % | 450 % | ASTM D412 |
| Tear Strength | 167 kN/m | 952 pli | ASTM D624 |

| Optical Properties | Metric | English | Comments |
|-----------------------|--------|---------|---------------------------------------|
| Transmission, Visible | 90 % | 90 % | transparent; thickness not quantified |

| Processing Properties | Metric | English | Comments |
|-----------------------|---------------|---------------|-------------------|
| Nozzle Temperature | 195 - 205 Â°C | 383 - 401 Â°F | Injection Molding |
| Zone 1 | 160 - 175 Â°C | 320 - 347 Â°F | Injection Molding |
| | 160 - 175 Â°C | 320 - 347 Â°F | Extrusion Molding |
| Zone 2 | 180 - 190 Â°C | 356 - 374 Â°F | Injection Molding |
| | 185 - 195 Â°C | 365 - 383 Â°F | Extrusion Molding |
| Zone 3 | 180 - 195 Â°C | 356 - 383 Â°F | Extrusion Molding |
| | 185 - 195 Â°C | 365 - 383 Â°F | Injection Molding |
| Zone 4 | 190 - 205 Â°C | 374 - 401 Â°F | Extrusion Molding |
| Die Temperature | 190 - 205 Â°C | 374 - 401 Â°F | Extrusion Molding |
| Head Temperature | 195 - 210 Â°C | 383 - 410 Â°F | Extrusion Molding |

Processing Properties

Metric

English

Comments

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