

## Kolon ELLAS K-787A Ester Based Thermoplastic Polyurethane

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

**Material Notes:**

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

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kolon-ELLAS-K-787A-Ester-Based-Thermoplastic-Polyurethane.php](http://www.lookpolymers.com/polymer_Kolon-ELLAS-K-787A-Ester-Based-Thermoplastic-Polyurethane.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	87	87	ASTM D2240
Tensile Strength	46.1 MPa	6680 psi	ASTM D412
Tensile Stress	8.53 MPa @Strain 100 %	1240 psi @Strain 100 %	ASTM D412
Elongation at Break	500 %	500 %	ASTM D412
Tear Strength	98.1 kN/m	560 pli	ASTM D624

Processing Properties	Metric	English	Comments
Nozzle Temperature	185 - 195 Å°C	365 - 383 Å°F	Injection Molding
Zone 1	150 - 170 Å°C	302 - 338 Å°F	Injection Molding
	155 - 175 Å°C	311 - 347 Å°F	Extrusion Molding
Zone 2	170 - 180 Å°C	338 - 356 Å°F	Extrusion Molding
	175 - 185 Å°C	347 - 365 Å°F	Injection Molding
Zone 3	170 - 190 Å°C	338 - 374 Å°F	Extrusion Molding
	180 - 190 Å°C	356 - 374 Å°F	Injection Molding
Zone 4	185 - 195 Å°C	365 - 383 Å°F	Extrusion Molding
Die Temperature	185 - 195 Å°C	365 - 383 Å°F	Extrusion Molding
Head Temperature	190 - 200 Å°C	374 - 392 Å°F	Extrusion Molding

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