

## Kolon ELLAS K-429A Ester Based Thermoplastic Polyurethane

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

**Material Notes:**

Applications Industry Parts Outsole of Soccer Shoe Highly Pressurized Hose Information provided by API-Kolon.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kolon-ELLAS-K-429A-Ester-Based-Thermoplastic-Polyurethane.php](http://www.lookpolymers.com/polymer_Kolon-ELLAS-K-429A-Ester-Based-Thermoplastic-Polyurethane.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	92	92	ASTM D2240
Tensile Strength	44.1 MPa	6400 psi	ASTM D412
Tensile Stress	10.8 MPa @Strain 100 %	1560 psi @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 - 170 Â°C	311 - 338 Â°F	Extrusion Molding
	155 - 175 Â°C	311 - 347 Â°F	Injection Molding
Zone 2	175 - 190 Â°C	347 - 374 Â°F	Extrusion Molding
	185 - 190 Â°C	365 - 374 Â°F	Injection Molding
Zone 3	175 - 190 Â°C	347 - 374 Â°F	Extrusion Molding
	185 - 195 Â°C	365 - 383 Â°F	Injection Molding
Zone 4	185 - 200 Â°C	365 - 392 Â°F	Extrusion Molding
Die Temperature	185 - 195 Â°C	365 - 383 Â°F	Extrusion Molding
Head Temperature	190 - 205 Â°C	374 - 401 Â°F	Extrusion Molding

**Contact Songhan Plastic Technology Co.,Ltd.**

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