

Kraiburg TPE THERMOLAST[®] K TC6GPN Thermoplastic Elastomer, General purpose

Category : Polymer , Thermoplastic , Elastomer, TPE , Styrenic TPE

Material Notes:

The GP/FG Series is recommended for a variety of different applications. It is particularly appropriate for passenger compartments. The compounds are available in natural and black colors. Typical applications: Car mats Function and design elements Handles (tools, toolboxes, ski poles) Seals Soft touch surface (thumb wheels, push buttons, switches) Material advantages: Adhesion to PPEasy coloring (compounds in natural colors) Excellent mechanical properties Excellent processing behavior Fulfills specifications for automotive interior Pleasant surface feel (Soft touch) UL 94 HB listed Processing Method: Extrusion, Injection Molding Information Provided by Kraiburg TPE Corp.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kraiburg-TPE-THERMOLAST-K-TC6GPN-Thermoplastic-Elastomer-General-purpose.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	DIN EN ISO 1183-1

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	59	59	DIN ISO 7619
Tensile Strength	8.50 MPa	1230 psi	DIN 53504/ISO 37
Elongation at Break	750 %	750 %	DIN 53504/ISO 37
Tear Strength	16.0 kN/m	91.3 pli	DIN ISO 34-1
Compression Set	18 %	18 %	DIN ISO 815
	@Temperature 25.0 °C, Time 259000 sec	@Temperature 77.0 °F, Time 72.0 hour	
	30 %	30 %	
	@Temperature 70.0 °C, Time 86400 sec	@Temperature 158 °F, Time 24.0 hour	DIN ISO 815
	57 %	57 %	DIN ISO 815
@Temperature 100 °C, Time 86400 sec	@Temperature 212 °F, Time 24.0 hour		

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	180 °C	356 °F	Injection
	200 °C	392 °F	Extrusion

Middle Barrel Temperature Processing Properties	180 Â°C Metric	356 Â°F English	Extrusion Comments
	200 Â°C	392 Â°F	Injection
Front Barrel Temperature	160 Â°C	320 Â°F	Extrusion
	220 Â°C	428 Â°F	Injection
Die Temperature	190 - 210 Â°C	374 - 410 Â°F	Extrusion
Head Temperature	180 Â°C	356 Â°F	Extrusion
Mold Temperature	25.0 - 40.0 Â°C	77.0 - 104 Â°F	Injection
Drying Temperature	60.0 - 80.0 Â°C @Time 7200 - 14400 sec	140 - 176 Â°F @Time 2.00 - 4.00 hour	Extrusion/Injection
Injection Pressure	20.0 - 100 MPa	2900 - 14500 psi	Injection
Back Pressure	1.97 - 4.90 MPa	285 - 710 psi	Injection

Descriptive Properties	Value	Comments
Color	Natural	
Hotrunner	200-250Â°C	The runner should be empty after a maximum of 2 - 3 shots.
Max Cylinder Temperature	230Â°C	Extrusion
	250Â°C	Injection

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