

THERMOLAST® K TC2GPZ (Series: GP/HM)



Prospector

Styrene Ethylene Butylene Styrene Block Copolymer

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Uses	• Outdoor Applications
Appearance	• Black

Physical	Nominal Value Unit	Test Method
Density	1.10 g/cm ³	ISO 1183

Elastomers	Nominal Value Unit	Test Method
Tensile Stress		ISO 37
100% Strain	0.500 MPa	
200% Strain	0.900 MPa	
300% Strain	1.30 MPa	
Tensile Stress (Yield)	2.50 MPa	ISO 37
Tensile Elongation (Break)	600 %	ISO 37
Tear Strength ²	6.0 kN/m	ISO 34-1
Compression Set		ISO 815
23°C, 72.0 hr	10 %	
70°C, 22.0 hr	32 %	
100°C, 22.0 hr	70 %	

Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore A)	25	ISO 868

Flammability	Nominal Value Unit	Test Method
Flame Rating - UL	HB	UL 94

Additional Information	Nominal Value Unit	Test Method
ISO Type	TPE-SEBS	ISO 18064
Sunlight Resistance - dE = 1.030	4.00E+6 kJ/m ²	

Injection	Nominal Value Unit
Drying Temperature	60.0 to 80.0 °C
Drying Time	2.0 to 4.0 hr
Rear Temperature	180 °C
Middle Temperature	200 °C
Front Temperature	220 °C
Mold Temperature	25.0 to 40.0 °C
Injection Pressure	5.00 to 40.0 MPa
Injection Rate	Fast
Back Pressure	2.00 to 5.00 MPa

Injection Notes

Hot Runner Temperature: 200 to 250°C
 Hot runner should be empty after a maximum of 2 to 3 shots.
 With materials <50 Shore A the use of a needle seal nozzle is advisable.

Extrusion	Nominal Value Unit
Drying Temperature	60.0 to 80.0 °C
Drying Time	2.0 to 4.0 hr
Cylinder Zone 1 Temp.	140 °C
Cylinder Zone 2 Temp.	150 °C
Cylinder Zone 3 Temp.	160 °C
Die Temperature	180 to 190 °C

Extrusion Notes

L/D Ratio: 25:1
 Compression Ratio: 3.5:1
 Mold Clamping Zone: 3 to 5 mm
 Extruder Heat Temperature: 170°C

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KRAIBURG TPE Corporation

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Notes

¹ Typical properties: these are not to be construed as specifications.

² Method Bb, Angle (Nicked)

Revision History

Document Created: Wednesday, March 14, 2012
Added to Prospector: March, 2007
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