

THERMOLAST® K TC3GPZ (Series: GP/HM)



Prospector

Styrene Ethylene Butylene Styrene Block Copolymer

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Good Weather Resistance		
Uses	• Outdoor Applications		
Appearance	• Black		
Part Marking Code (ISO 11469)	• TPS-SEBS		

Physical	Nominal Value Unit	Test Method
Density	1.10 g/cm ³	ISO 1183
Molding Shrinkage ² (2.00 mm)	0.90 %	Internal Method

Elastomers	Nominal Value Unit	Test Method
Tensile Stress		ISO 37
100% Strain	0.700 MPa	
200% Strain	1.10 MPa	
300% Strain	1.50 MPa	
Tensile Stress (Break)	3.50 MPa	ISO 37
Tensile Elongation (Break)	680 %	ISO 37
Tear Strength ³	8.0 kN/m	ISO 34-1

Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore A)	30	ISO 868

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

Additional Information	Nominal Value Unit	Test Method
Weather Resistance (dE=1.030)	4.00E+6 kJ/m ²	Internal Method

Injection	Nominal Value Unit
Drying Temperature	80.0 °C
Drying Time	2.0 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

Extrusion	Nominal Value Unit
Drying Temperature	80.0 °C
Drying Time	2.0 hr
Cylinder Zone 1 Temp.	160 °C
Cylinder Zone 3 Temp.	170 °C
Cylinder Zone 5 Temp.	180 °C
Adapter Temperature	180 °C
Die Temperature	180 °C

Extrusion Notes
Compression Ratio: At least 3.5:1
Mold Clamping Zone: 3 to 5 mm
Screw Length: 25D

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KRAIBURG TPE Corporation

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Notes

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

² Injection molded plaque 125 x 125 x 2 mm

³ Method Bb, Angle (Nicked)

Revision History

Document Created: 13 June 2011
Added to Prospector: March 2007
Last Updated: 03/02/2010