

THERMOLAST® K TC6MLZ (Series: CO/1VT)

Thermoplastic Elastomer



Prospector

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Features	• Good Weather Resistance		
Uses	• Outdoor Applications		
Appearance	• Black		
Processing Method	• Injection Molding		

Physical	Nominal Value Unit	Test Method
Density	1.10 g/cm ³	ISO 1183
Molding Shrinkage ² (2.00 mm)	1.7 %	Internal Method

Elastomers	Nominal Value Unit	Test Method
Tensile Stress		ISO 37
100% Strain	1.90 MPa	
200% Strain	2.60 MPa	
300% Strain	3.00 MPa	
Tensile Stress (Break)	4.20 MPa	ISO 37
Tensile Elongation (Break)	530 %	ISO 37
Tear Strength ³	15 kN/m	ISO 34-1

Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore A)	60	ISO 868

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

Additional Information	Nominal Value Unit	Test Method
Weather Resistance	2.20E+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	210 °C
Front Temperature	240 °C
Mold Temperature	40.0 to 60.0 °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: 220 to 250°C

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)