



KEYFLEX BT 1063D

Injection Molding, TPC-ET

Description

General Purpose, High Modulus

Application

Injection Parts for Automotives, Leisure & Sports, etc.

Properties	Test Condition	Test Method	Unit	Typical Value
Physical				
Specific Gravity		ASTM D792	-	1.23
Molding Shrinkage (Flow), 3.2mm		ASTM D955	%	1.3 ~ 1.7
Melt Flow Rate	230℃/2.16kg	ASTM D1238	g/10min	24
Water Absorption	23℃, 24hrs	ASTM D570	%	0.3
Mechanical				
Tensile Strength, 2mm		ASTM D638		
@ Yield	50mm/min		ka/cm ²	190
@ Break	50mm/min		kg/cm ²	500
Tensile Elongation, 2mm		ASTM D638		
@ Yield	50mm/min		%	
@ Break	50mm/min		%	650
Flexural Strength, 6.4mm	15mm/min	ASTM D790	kg/cm ²	
Flexural Modulus, 6.4mm	15mm/min	ASTM D790	kg/cm ²	3,300
Tear Strength @ Break	50mm/min	ASTM D624	kg/cm	160
IZOD Impact Strength, 6.4mm		ASTM D256		
(Notched)	23 ℃		kg∙cm/cm	No break
	-40 ℃		kg∙cm/cm	6.5
Shore Hardness	Shore D	ASTM D2240	-	61
Shore Hardness	Shore A	ASTM D2240	-	
Thermal				
Melt Temperature @ Peak		ASTM D3418	°C	212
Heat Deflection Temperature, 6.4mm		ASTM D648		
(Unannealed)	4.6kg		°C	111
Flammability	0	UL94		
1.5mm			class	HB
3.0mm			class	HB
Electrical				
Comparative Tracking Index(CTI)	Solution A	IEC 60112	Volts	600
Surface Resistivity		IEC 60093	Ohm	
Volume Resistivity	23 ℃	ASTM D257	Ohm∙m	>E13
Dielectric Strength, 1mm	23 ℃	ASTM D149	kV/mm	26
Dielectric Constant (10 ⁶ Hz)	23 ℃	ASTM D150	sec	

All properties, except melt flow rate are measured on injection molulded specimens and after 48 hours storage at 23 °C, 50% relative humidty.

Updated : 1-Sep-18

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Processing Guide (Injection Molding)

Processing Parameters		Unit	Value
Drying Temperature		Ĵ	80 ~ 90
Drying Time		hrs	3 ~ 4
Maximum Moisture Content		%	0.08
Melt Temperature		Ĵ	210 ~ 240
Cylinder Temperature	Rear	Ĵ	210 ~ 230
	Middle	Ĵ	220 ~ 240
	Front	Ĵ	225 ~ 245
Nozzle Temperature		C	225 ~ 245
Mold Temperature		Ĵ	20 ~ 40
Back Pressure		kg/cm ²	
Screw Speed		rpm	

Note) Back Pressure & Screw Speed are only mentioned as general guidelines.

These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding.

Processing Guide (Extrusion Molding)

Processing Parameters		Unit	Value
Drying Temperature		C	80 ~ 90
Drying Time		hrs	3 ~ 4
Maximum Moisture Content		%	0.06
Melt Temperature		C	210 ~ 240
	Zone 1	Ĵ	210 ~ 230
Barrel Temperature	Zone 2	C	220 ~ 240
	Zone 3	C	220 ~ 240
	Zone 4	C	220 ~ 240
Adapter Temperature		C	220 ~ 240
Die Temperature		C	210 ~ 230

Note) Recommend initial lower temperatures settings to avoid material degradation/hang-up in die & purge material from extruder prior to shutdown.

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