

KEYFLEX BT 1055D

TPC

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	25	g/10min	ASTM D 1238
Temperature	230	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.013	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	13.7	MPa	ASTM D 638
Tensile Strength at Break	34.3	MPa	ASTM D 638
Elongation at Break	500	%	ASTM D 638
Flexural Modulus	196.2	MPa	ASTM D 790
Shore D Hardness	54	-	ASTM D 2240
Tear Strength	147	kN/m	ASTM D 624
Izod Impact notched, 1/4 in	N	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	147	J/m	ASTM D 256
Temperature	-40	°C	-

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.5	mm	-
DTUL @ 66 psi	100	°C	ASTM D 648
Melting Temperature	205	°C	ASTM D 3418

Electrical properties	Value	Unit	Test Standard
ISO Data			
Comparative tracking index	600	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	26	kV/mm	ASTM D 149
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.6	%	ASTM D 570
Density	1200	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.01	%	-
Melt temperature	200 - 240	°C	-
Mold temperature	20 - 40	°C	-
Zone 1	200 - 220	°C	-
Zone 2	210 - 230	°C	-
Zone 3	220 - 240	°C	-
Nozzle temperature	220 - 240	°C	-

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.01	%	-
Melt temperature	200 - 240	°C	-
Zone 1	200 - 220	°C	-
Zone 2	210 - 230	°C	-
Zone 3	215 - 235	°C	-
Zone 4	220 - 240	°C	-

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Nozzle temperature

210 - 250

°C

-

Characteristics

Processing

Injection Molding, Other Extrusion

Regional Availability

North America, Europe, Asia Pacific, South and Central America

Applications

Automotive, General Purpose, Sports Equipment