

**KEYFLEX BT 1040D**

TPC

LG Chem

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>20</b>	g/10min	ASTM D 1238
Temperature	<b>200</b>	°C	-
Load	<b>2.16</b>	kg	-
Mold Shrinkage, MD	<b>0.008</b>	mm/mm	ASTM D 955

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Tensile Strength at Break	<b>25.5</b>	MPa	ASTM D 638
Elongation at Break	<b>700</b>	%	ASTM D 638
Flexural Modulus	<b>68.67</b>	MPa	ASTM D 790
Shore A Hardness	<b>92</b>	-	ASTM D 2240
Shore D Hardness	<b>38</b>	-	ASTM D 2240
Tear Strength	<b>118</b>	kN/m	ASTM D 624
Izod Impact notched, 1/4 in	<b>N</b>	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	<b>N</b>	J/m	ASTM D 256
Temperature	<b>-40</b>	°C	-

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
UL 94 Flame rating	<b>HB</b>	-	UL 94
Thickness tested	<b>1.5</b>	mm	-
DTUL @ 66 psi	<b>60</b>	°C	ASTM D 648
Melting Temperature	<b>178</b>	°C	ASTM D 3418

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

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Water Absorption, 24hr	<b>0.7</b>	%	ASTM D 570
Density	<b>1130</b>	kg/m <sup>3</sup>	ASTM D 792

<b>Processing Recommendation Injection Molding</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>80 - 90</b>	°C	-
Pre-drying - Time	<b>3 - 4</b>	h	-
Processing humidity	<b>≤0.01</b>	%	-
Melt temperature	<b>180 - 220</b>	°C	-
Mold temperature	<b>10 - 35</b>	°C	-
Zone 1	<b>180 - 200</b>	°C	-
Zone 2	<b>190 - 210</b>	°C	-
Zone 3	<b>200 - 220</b>	°C	-
Nozzle temperature	<b>200 - 220</b>	°C	-

<b>Processing Recommendation Extrusion</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Pre-drying - Temperature	<b>80 - 90</b>	°C	-
Pre-drying - Time	<b>3 - 4</b>	h	-
Processing humidity	<b>≤0.01</b>	%	-
Melt temperature	<b>180 - 220</b>	°C	-
Zone 1	<b>180 - 200</b>	°C	-
Zone 2	<b>190 - 210</b>	°C	-
Zone 3	<b>200 - 220</b>	°C	-
Zone 4	<b>200 - 220</b>	°C	-

## KEYFLEX BT 1040D

TPC

LG Chem

Nozzle temperature

190 - 230

°C

-

### Characteristics

#### Processing

Injection Molding, Other Extrusion

#### Regional Availability

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

#### Applications

General Purpose, Sports Equipment