

**KEYFLEX BT 1172D**

TPC

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	14	g/10min	ASTM D 1238
Temperature	240	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.017	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Tensile Strength at Yield	24.5	MPa	ASTM D 638
Tensile Strength at Break	45.1	MPa	ASTM D 638
Elongation at Break	400	%	ASTM D 638
Flexural Modulus	470.9	MPa	ASTM D 790
Shore D Hardness	66	-	ASTM D 2240
Tear Strength	162	kN/m	ASTM D 624
Izod Impact notched, 1/4 in	147	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	49	J/m	ASTM D 256
Temperature	-40	°C	-

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.5	mm	-
DTUL @ 66 psi	130	°C	ASTM D 648
Melting Temperature	217	°C	ASTM D 3418

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Comparative tracking index	600	-	IEC 60112
<b>ASTM Data</b>			
Dielectric Strength, Short Time	26	kV/mm	ASTM D 149
Volume Resistivity	1E13	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.3	%	ASTM D 570
Density	1250	kg/m <sup>3</sup>	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	220 - 240	°C	-
Mold temperature	40 - 60	°C	-
Zone 1	220 - 240	°C	-
Zone 2	230 - 250	°C	-
Zone 3	235 - 255	°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	220 - 240	°C	-
Zone 1	220 - 240	°C	-
Zone 2	225 - 245	°C	-
Zone 3	230 - 250	°C	-
Zone 4	235 - 245	°C	-
Nozzle temperature	220 - 260	°C	-

**Characteristics****Processing**

Injection Molding, Other Extrusion

**Regional Availability**

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

**Applications**

Electrical and Electrical, General Purpose