

KEYFLEX BT 1140D

TPC

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	12	g/10min	ASTM D 1238
Temperature	200	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.008	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Break	25.5	MPa	ASTM D 638
Elongation at Break	750	%	ASTM D 638
Flexural Modulus	58.86	MPa	ASTM D 790
Shore A Hardness	90	-	ASTM D 2240
Shore D Hardness	36	-	ASTM D 2240
Tear Strength	118	kN/m	ASTM D 624
Izod Impact notched, 1/4 in	N	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	N	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	-
Melting Temperature	170	°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	0.7	%	ASTM D 570
Density	1120	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	180 - 220	°C	-
Mold temperature	10 - 35	°C	-
Zone 1	180 - 200	°C	-
Zone 2	190 - 210	°C	-
Zone 3	200 - 220	°C	-
Nozzle temperature	200 - 220	°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	180 - 220	°C	-
Zone 1	180 - 200	°C	-
Zone 2	190 - 210	°C	-
Zone 3	200 - 220	°C	-
Zone 4	200 - 220	°C	-
Nozzle temperature	190 - 230	°C	-

Characteristics**Processing**

Injection Molding, Other Extrusion

Regional Availability

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

Applications

Electrical and Electrical, General Purpose