

KEYFLEX BT 1163D

TPC

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	15	g/10min	ASTM D 1238
Temperature	230	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.013	mm/mm	ASTM D 955
Mechanical properties			
ASTM Data	Value	Unit	Test Standard
Tensile Strength at Yield	16.7	MPa	ASTM D 638
Tensile Strength at Break	37.3	MPa	ASTM D 638
Elongation at Break	450	%	ASTM D 638
Flexural Modulus	215.8	MPa	ASTM D 790
Shore D Hardness	58	-	ASTM D 2240
Tear Strength	157	kN/m	ASTM D 624
Izod Impact notched, 1/4 in	N	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	98	J/m	ASTM D 256
Temperature	-40	°C	-
Thermal properties			
ASTM Data	Value	Unit	Test Standard
DTUL @ 66 psi	110	°C	ASTM D 648
Melting Temperature	208	°C	ASTM D 3418
Electrical properties			
ISO Data	Value	Unit	Test Standard
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	0.5	%	ASTM D 570
Density	1210	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	210 - 240	°C	-
Mold temperature	20 - 40	°C	-
Zone 1	210 - 230	°C	-
Zone 2	220 - 240	°C	-
Zone 3	225 - 245	°C	-
Nozzle temperature	225 - 245	°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	210 - 240	°C	-
Zone 1	210 - 230	°C	-
Zone 2	215 - 235	°C	-
Zone 3	225 - 245	°C	-
Zone 4	225 - 245	°C	-
Nozzle temperature	215 - 255	°C	-

Characteristics**Processing**

Injection Molding, Other Extrusion

Regional Availability

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

Applications

Electrical and Electrical, General Purpose