

KEYFLEX BT S5035

TPC

LG Chem

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	15	g/10min	ASTM D 1238
Temperature	240	°C	-
Load	2.16	kg	-
Mold Shrinkage, MD	0.016	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Break	32.4	MPa	ASTM D 638
Elongation at Break	550	%	ASTM D 638
Flexural Modulus	343.4	MPa	ASTM D 790
Shore D Hardness	52	-	ASTM D 2240
Tear Strength	142	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			
DTUL @ 66 psi	60	°C	ASTM D 648
Melting Temperature	220	°C	ASTM D 3418

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.6	%	ASTM D 570
Density	1180	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	220 - 250	°C	-
Mold temperature	40 - 60	°C	-
Zone 1	220 - 240	°C	-
Zone 2	230 - 250	°C	-
Zone 3	230 - 250	°C	-
Nozzle temperature	230 - 250	°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 - 250	°C	-
Zone 1	220 - 230	°C	-
Zone 2	225 - 235	°C	-
Zone 3	225 - 235	°C	-
Zone 4	230 - 240	°C	-
Nozzle temperature	220 - 250	°C	-

Characteristics**Processing**

Injection Molding, Other Extrusion

Delivery form

Black

Applications

Automotive

Regional Availability

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