

# Ultradur® B 4040 G10 High Speed BK15029

## Polybutylene Terephthalate

### Product Description

Ultradur B 4040 G10 High Speed BK15029 is a high flow, fast cycling with low warpage, 50% glass filled, injection molding PBT for industrial parts, rigid tough and dimensional stable applications.

### General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber Reinforcement, 50% Filler by Weight
Features	• Fast Molding Cycle • High Flow • Good Dimensional Stability • Low Warpage
Uses	• Housings • Industrial Applications • Printed Circuit Boards
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1760	kg/m <sup>3</sup>	ISO 1183 <sup>2</sup>
Melt volume-flow rate (275°C/5.0 kg)	130	cm <sup>3</sup> /10min	ISO 1133 <sup>2</sup>
Molding Shrinkage			ISO 294-4
Across Flow	0.30	%	
Flow	0.80	%	
Water Absorption			ISO 62 <sup>2</sup>
Saturation	0.40	%	
Equilibrium	0.12	%	
Viscosity Number	75.0	cm <sup>3</sup> /g	ISO 1628

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	18400	MPa	ISO 527-2 <sup>2</sup>
Tensile Stress (Break)	150	MPa	ISO 527-2 <sup>2</sup>
Tensile Strain (Break)	1.2	%	ISO 527-2 <sup>2</sup>

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	10.0	kJ/m <sup>2</sup>	ISO 179/1eA <sup>2</sup>

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2 <sup>2</sup>
0.45 MPa	220	°C	
1.8 MPa	205	°C	
Melting Temperature (DSC)	223	°C	ISO 3146
CLTE - Flow	0.000025	cm/cm/°C	ISO 11359-2

Electrical	Nominal Value	Unit	Test Method
Surface resistivity	1.0E+13	ohms	IEC 60093 <sup>2</sup>
Volume resistivity	> 1.0E+11	ohm·m	IEC 60093 <sup>2</sup>
Relative Permittivity			IEC 60250 <sup>2</sup>
100 Hz	4.70		
1 MHz	4.50		
Dissipation Factor			IEC 60250 <sup>2</sup>
100 Hz	20		
1 MHz	150		
Comparative tracking index	225		IEC 60112 <sup>2</sup>

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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