

Ultradur® B 4040 G6 High Speed BK15029

Polybutylene Terephthalate

Product Description

Ultradur B 4040 G6 High Speed BK15029 is a high flow, fast cycling with low warpage, 30% glass filled, pigmented black, 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, 30% Filler by Weight
Features	• Fast Molding Cycle • High Flow • Low Warpage
Uses	• Housings • Industrial Applications • Printed Circuit Boards
RoHS Compliance	• RoHS Compliant
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1550	kg/m ³	ISO 1183 ²
Melt volume-flow rate (275°C/5.0 kg)	40.0	cm ³ /10min	ISO 1133 ²
Molding Shrinkage			ISO 294-4
Across Flow	0.30	%	
Flow	1.0	%	
Water Absorption			ISO 62 ²
Saturation	0.40	%	
Equilibrium	0.20	%	
Viscosity Number	85.0	cm ³ /g	ISO 1628

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	10500	MPa	ISO 527-2 ²
Tensile Stress (Break)	130	MPa	ISO 527-2 ²
Tensile Strain (Break)	1.9	%	ISO 527-2 ²

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	7.40	kJ/m ²	ISO 179/1eA ²

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2 ²
0.45 MPa	220	°C	
1.8 MPa	200	°C	
Melting Temperature (DSC)	223	°C	ISO 3146
CLTE - Flow	0.000035	cm/cm/°C	ISO 11359-2

Electrical	Nominal Value	Unit	Test Method
Surface resistivity	> 1.0E+15	ohms	IEC 60093 ²
Volume resistivity	> 1.0E+11	ohm·m	IEC 60093 ²
Relative Permittivity			IEC 60250 ²
100 Hz	4.00		
1 MHz	3.80		
Dissipation Factor			IEC 60250 ²
100 Hz	16		
1 MHz	170		
Comparative tracking index	250		IEC 60112 ²

Notes

¹ Typical properties: these are not to be construed as specifications.

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

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 www.kedisujiao.com

备注：以上原料物性数据由厂家发布,我公司仅提供参考！数据如有变动，请联系原料生产厂家获知。我公司不承担任何法律责任！