

Ultradur® B 4040 G10 LS High Speed BK15029

Polybutylene Terephthalate + PET

Product Description

Ultradur B 4040 G10 LS High Speed BK15029 is a high flow, fast cycling with low warpage, 50% 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, 50% Filler by Weight
Features	• Good Dimensional Stability • High Rigidity • Low Warpage • High Flow • Laser Markable
Uses	• Automotive Exterior Parts • Housings • Printed Circuit Boards
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value	Unit	Test Method
Density	1760	kg/m ³	ISO 1183 ²
Melt volume-flow rate (275°C/10.0 kg)	110	cm ³ /10min	ISO 1133 ²
Viscosity Number	75.0	cm ³ /g	ISO 1628

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	18700	MPa	ISO 527-2 ²
Tensile Stress (Break)	170	MPa	ISO 527-2 ²
Tensile Strain (Break)	1.4	%	ISO 527-2 ²

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	10.0	kJ/m ²	ISO 179/1eA ²
Charpy Unnotched Impact Strength			ISO 179
-30°C	64	kJ/m ²	
23°C	60	kJ/m ²	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2 ²
0.45 MPa	220	°C	
1.8 MPa	205	°C	
Melting Temperature (DSC)	223	°C	ISO 3146

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.

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