

# Ultradur® S 4090 G4 LS High Speed BK15077

## Polybutylene Terephthalate

General			
Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber Reinforcement, 20% Filler by Weight		
Features	• Fast Molding Cycle • Good Chemical Resistance • Good Surface Finish	• High Flow • Laser Markable • Low Shrinkage	• Low Warpage
Uses	• Electrical Housing	• Housings	
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Density	1390	kg/m <sup>3</sup>	ISO 1183 <sup>2</sup>
Melt volume-flow rate (275°C/5.0 kg)	39.0	cm <sup>3</sup> /10min	ISO 1133 <sup>2</sup>
Molding Shrinkage			ISO 294-4
Across Flow	0.39	%	
Flow	0.76	%	
Water Absorption			ISO 62 <sup>2</sup>
Saturation	0.40	%	
Equilibrium	0.20	%	
Viscosity Number	104	cm <sup>3</sup> /g	ISO 1628

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	7000	MPa	ISO 527-2 <sup>2</sup>
Tensile Stress (Break)	100	MPa	ISO 527-2 <sup>2</sup>
Tensile Strain (Break)	2.2	%	ISO 527-2 <sup>2</sup>

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	6.00	kJ/m <sup>2</sup>	ISO 179/1eA <sup>2</sup>
Charpy Unnotched Impact Strength			ISO 179
-30°C	33	kJ/m <sup>2</sup>	
23°C	45	kJ/m <sup>2</sup>	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2 <sup>2</sup>
0.45 MPa	205	°C	
1.8 MPa	160	°C	
Melting Temperature (DSC)	223	°C	ISO 3146
CLTE - Flow	0.000040	cm/cm/°C	ISO 11359-2

Electrical	Nominal Value	Unit	Test Method
Surface resistivity	1.0E+14	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	3.70		
1 MHz	3.60		
Dissipation Factor			IEC 60250 <sup>2</sup>
100 Hz	30		
1 MHz	190		
Comparative tracking index	450		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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