Ultradur® B 4040 G10 BK5110

Polybutylene Terephthalate BASF Corporation



Product Description

Ultradur B 4040 G10 BK5110 is a pigmented black, injection molding PBT with 50% glass fiber reinforced for technical parts with excellent surface finish.

Material Status • Commercial: Active Availability • North America Filler / Reinforcement • Gisss Fiber Reinforcement, 50% Filler by Weight	General			
Filler / Reinforcement Olass Filter Reinforcement, 50% Filler by Weight Additive Mold Release Features Good Surface Finish Uses Automotive Exterior Parts Handles Engineering Parts Housings Housings RoHS Compliant Appearance Black Forms Pellets Forms Processing Method Injection Molding Physical Nominal Value Unit Test Method Specific Gravity 1.73 g/cm³ ASTM D792 - 1.73 g/cm³ ASTM D792 - 1.73 kg/m³ ISO 1183 ² Methodume-flow rate (275°C/5.0 kg) 6.00 cm³/10min ISO 1183 ² Methodume-flow rate (275°C/5.0 kg) 0.40 % ASTM D570 Staturation 0.40 % ISO 180 ² Equilibrium, 50% RH 0.12 % ASTM D570 Staturation 0.40 % ISO 62 ² Equilibrium, 50% RH 0.12 % ISO 62 ² - 2 Equilibrium, 50% RH 150 152.8 ISO 527 - 2 ² Tensile Extergth ISO 507 - 2 ²	Material Status	 Commercial: Active 		
Additive · Mold Release · Automotive Exterior Parts · Handles · Handles · Engineering Parts · Handles · Housings · Housin	Availability	North America		
Features Cood Surface Finish Uses Automotive Exterior Parts Hanles RoHS Compliance RoHS Compliant Appearance Appearance Black	Filler / Reinforcement	 Glass Fiber Reinforcement, 	50% Filler by Weight	
Uses Automotive Exterior Parts Housings RoHS Compliance RoHS Compliant Appearance Black Forms Pellets Processing Method Injection Molding Injection Molding Interview Inte	Additive	Mold Release		
Engineening Parts Housings RoHS Compliant Appearance Black Forms Pallets Processing Method Test Method Processing Method Injection Molding Test Method Test Method Specific Gravity 1.73 g/cm³ ASTM D792 Test Method - 1.73 g/cm³ ISO 1183 ² Molding Shrinkage - Flow (3.18 mm) 0.00 cm?/10min ISO 1133 ² Molding Shrinkage - Flow (3.18 mm) 0.20 % ASTM D955 Water Absorption Staruation ISO 62 ² Saturation 0.40 % ISO 62 ² ISO 62 ² Staruation ISO 62 ² Viscosity Number 97.0 cm²/g ISO 162 ² ISO 62 ² ISO 62 ² Viscosity Number 97.0 cm²/g ISO 162 ² ISO 62 ² ISO 62 ² Viscosity Number 97.0 cm²/g ISO 162 ² ISO 62 ²	Features	 Good Surface Finish 		
RoHS Compliance RoHS Compliant Appearance Black Forms Pielets Processing Method Injection Molding Injection Molding Nominal Value Unit Test Method Specific Gravity 1730 g/cm² ASTM D792 - 0.00 cm²10nin ISO 1183 ² Molding Shrinkage - Flow (3.18 mm) 0.20 % ASTM D570 Equilibrium, 50% RH 0.12 % ASTM D570 Equilibrium, 50% RH 0.12 % ISO 62² Viscosity Number 97.0 cm²ng ISO 1628 Mechanical Nominal Value Unit Test Method Tensile modulus ISO 527.2² Tensile strength Break 15 % ISO 527.2² Tensile Elongation ISO 178 ISO 178 <td>Uses</td> <td></td> <td></td> <td></td>	Uses			
Appearance • Black Forms • Pellets Processing Method Injection Molding Physical Nominal Value Unit Test Method Specific Gravity 1.73 g/cm² ASTM D792 0.20 % ASTM D570 0.40 % ASTM D570 Saturation 0.40 % ASTM D570 Saturation 0.12 % ASTM D570 Iso 622 2 Viscosity Number 97.0 cm²/g ISO 1628 Vechanical Nominal Value Unit Test Method ISO 527.2 Tensile Bordulus 16500 MPa ISO 527.2 1 Tensile Bordulus 155 MPa ISO 527.2 2 Tensile Bordulus 155 MPa ISO 527.2 2 Tensile Bordulus 15 % ISO 178 </td <td></td> <td></td> <td>Housings</td> <td></td>			Housings	
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Physical Nominal Value Unit Test Method Specific Gravity 1.73 g/cm³ ASTM D792 - 0.00 cm³/10min ISO 1183 2 Molding Shrinkage - Flow (3.18 mm) 0.20 % ASTM D570 Saturation 0.40 % ASTM D570 Equilibrium, 50% RH 0.12 % ASTM D570 Equilibrium 0.12 % ASTM D570 Viscosity Number 0.70 cm³/g ISO 1628 Mechanical Nominal Value Unit Test Method Tensile Strength ISO 178 ISO 527-22 Tensile Strength ISO 1628 ISO 505 27-22 Break 15 MPa ISO 527-22 Tensile Strength ISO 178 ISO 178 Break 1.5 % ASTM D638 Break 1.5 % ISO 178 Fl				
Specific Gravity 1.73 g/cm³ ASTM D792 - 1730 kg/m³ ISO 1183 ² Melt volume-flow rate (275°C/5.0 kg) 6.00 cm²/10min ISO 1133 ² Molding Shrinkage - Flow (3.18 mm) 0.20 % ASTM D955 Water Absorption 0.40 % ASTM D570 Saturation 0.40 % ASTM D570 Equilibrium, 50% RH 0.12 % ASTM D570 Equilibrium 0.12 % ISO 62 ² Viscosity Number 9.70 cm²rg ISO 62 ² Tensile modulus 1SO 527-2 ² Tensile modulus ISO 527-2 ² Tensile Elongation ISO 627-2 ² Tensile Elongation ISO 178 B	Processing Method	 Injection Molding 		
Specific Gravity 1.73 g/cm³ ASTM D792 - 1730 kg/m³ ISO 1183 ² Melt volume-flow rate (275°C/5.0 kg) 6.00 cm²/10min ISO 1133 ² Molding Shrinkage - Flow (3.18 mm) 0.20 % ASTM D955 Water Absorption 0.40 % ASTM D570 Saturation 0.40 % ASTM D570 Equilibrium, 50% RH 0.12 % ASTM D570 Equilibrium 0.12 % ISO 62 ² Viscosity Number 9.70 cm²rg ISO 62 ² Tensile modulus 1SO 527-2 ² Tensile modulus ISO 527-2 ² Tensile Elongation ISO 627-2 ² Tensile Elongation ISO 178 B	Physical		Nominal Value Unit	Test Method
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Molding Shrinkage - Flow (3.18 mm) 0.20 % ASTM D955 Water Absorption	Melt volume-flow rate (275°C/5.0 kg)		-	
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Equilibrium, 50% RH 0.12 % ASTM D570 Equilibrium 0.12 % ISO 62 2 Viscosity Number 97.0 cm³/g ISO 1628 Mechanical Nominal Value Unit Test Method Tensile modulus 16500 MPa ISO 527-2 2 Tensile modulus 140 MPa ASTM D638 Break, 23°C 140 MPa ASTM D638 Break, 23°C 1.5 % ASTM D638 Break, 23°C 1.5 % ASTM D638 Break, 23°C 1.5 % ISO 527-2 2 Flexural Modulus 23°C ASTM D638 Break 1.5 % ISO 527-2 2 Flexural Modulus 23°C ASTM D638 Break 1.5 % ISO 527-2 2 Flexural Strength (23°C) 225 MPa ISO 178 Z3°C 15000 MPa ISO 178 Flexural Strength (23°C) 225 MPa ISO 178 Charpy notched impact strength ISO 179/1eA ² 30°C -30°C 69 kJ/m² 23°C 10.0 kJ/m² -30°C 69 kJ/m²	•		0.40 %	
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Viscosity Number 97.0 cm³/g ISO 1628 Mechanical Nominal Value Unit Test Method Tensile modulus 16500 MPa ISO 527-2 ² Tensile Strength				
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Tensile modulus 16500 MPa ISO 527-2² Tensile Strength			-	
Tensile Strength J40 MPa ASTM D638 Break, 23°C 140 MPa ASTM D638 Break 155 MPa ISO 527-2² Tensile Elongation				
Break, 23°C 140 MPa ASTM D638 Break 155 MPa ISO 527-2 2 Tensile Elongation	Tensile Strength			
Break 155 MPa ISO 527-2 ² Tensile Elongation	-		140 MPa	ASTM D638
Break, 23°C 1.5 % ASTM D638 Break 1.5 % ISO 527-2² Flexural Modulus 23°C 13600 MPa ASTM D790 23°C 13600 MPa ISO 178 Flexural Strength (23°C) 225 MPa ISO 178 mpact Nominal Value Unit Test Method Charpy notched impact strength ISO 179/1eA² 30°C -30°C 8.50 kJ/m² 23°C 23°C 10.0 kJ/m² ISO 179 -30°C 8.50 kJ/m² 1SO 179 23°C 10.0 kJ/m² ISO 179 -30°C 8.50 kJ/m² ISO 179 23°C 10.0 kJ/m² ISO 179 -30°C 8.50 kJ/m² ISO 179 -30°C 8.50 kJ/m² ISO 179 -30°C 69 kJ/m² ISO 179 -30°C 52 kJ/m² ISO 179 23°C 52 kJ/m² ISO 17			155 MPa	
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23°C 13600 MPa ASTM D790 23°C 15000 MPa ISO 178 Flexural Strength (23°C) 225 MPa ISO 178 mpact Nominal Value Unit Test Method Charpy notched impact strength ISO 179/1eA ² -30°C 8.50 kJ/m² ISO 179/1eA ² 23°C 10.0 kJ/m² ISO 179 Charpy Unnotched Impact Strength ISO 179 -30°C 69 kJ/m² ISO 179 -30°C 64.0 J/m ASTM D256 23°C 64.0 J/m ASTM D256 23°C 75.0 J/m ASTM D256 23°C 75.0 J/m ASTM D256 23°C 8.10 kJ/m² ISO 180	Break		1.5 %	ISO 527-2 ²
23°C 15000 MPa ISO 178 Flexural Strength (23°C) 225 MPa ISO 179 mpact Nominal Value Unit Test Method Charpy notched impact strength ISO 179/1eA ² ISO 179/1eA ² -30°C 8.50 kJ/m² ISO 179/1eA ² 23°C 10.0 kJ/m² ISO 179 Charpy Unnotched Impact Strength ISO 179 ISO 179 -30°C 69 kJ/m² ISO 179 23°C 69 kJ/m² ISO 179 -30°C 61 kJ/m² ISO 179 -30°C 52 kJ/m² ISO 179 -30°C 64.0 J/m ASTM D256 23°C 75.0 J/m ASTM D256 23°C 8.10 kJ/m² ISO 180	Flexural Modulus			
Flexural Strength (23°C) 225 MPa ISO 178 mpact Nominal Value Unit Test Method Charpy notched impact strength ISO 179/1eA ² -30°C 8.50 kJ/m ² 23°C 10.0 kJ/m ² Charpy Unnotched Impact Strength ISO 179 -30°C 69 kJ/m ² 23°C 69 kJ/m ² -30°C 52 kJ/m ² 23°C 69 kJ/m ² -30°C 69 kJ/m ² 23°C 69 kJ/m ² -30°C 52 kJ/m ² -30°C 69 kJ/m ² 23°C 69 kJ/m ² -30°C 52 kJ/m ²	23°C		13600 MPa	ASTM D790
Mpact Nominal Value Unit Test Method Charpy notched impact strength ISO 179/1eA ² -30°C 8.50 kJ/m ² 23°C 10.0 kJ/m ² Charpy Unnotched Impact Strength ISO 179 -30°C 69 kJ/m ² 23°C 52 kJ/m ² Notched Izod Impact -40°C -40°C 64.0 J/m ASTM D256 23°C 75.0 J/m ASTM D256 -40°C 8.10 kJ/m ² ISO 180	23°C		15000 MPa	ISO 178
Charpy notched impact strength ISO 179/1eA ² -30°C 8.50 kJ/m ² 23°C 10.0 kJ/m ² Charpy Unnotched Impact Strength ISO 179 -30°C 69 kJ/m ² 23°C 52 kJ/m ² Vortched Izod Impact 100 kJ/m ² A0°C 64.0 J/m -40°C 64.0 J/m -30°C 75.0 J/m -40°C 8.10 kJ/m ² ISO 179 150 180	Flexural Strength (23°C)		225 MPa	ISO 178
-30°C 8.50 kJ/m² 23°C 10.0 kJ/m² Charpy Unnotched Impact Strength ISO 179 -30°C 69 kJ/m² 23°C 52 kJ/m² Notched Izod Impact 52 kJ/m² -40°C 64.0 J/m ASTM D256 23°C 75.0 J/m ASTM D256 23°C 8.10 kJ/m² ISO 180	Impact		Nominal Value Unit	Test Method
23°C 10.0 kJ/m² Charpy Unnotched Impact Strength ISO 179 -30°C 69 kJ/m² 23°C 52 kJ/m² Notched Izod Impact 52 kJ/m² -40°C 64.0 J/m ASTM D256 23°C 75.0 J/m ASTM D256 -40°C 8.10 kJ/m² ISO 180	Charpy notched impact strength			ISO 179/1eA ²
Charpy Unnotched Impact Strength ISO 179 -30°C 69 kJ/m² 23°C 52 kJ/m² Notched Izod Impact -40°C -40°C 64.0 J/m ASTM D256 23°C 75.0 J/m ASTM D256 -40°C 8.10 kJ/m² ISO 179	-30°C		8.50 kJ/m ²	
-30°C 69 kJ/m² 23°C 52 kJ/m² Notched Izod Impact 64.0 J/m -40°C 64.0 J/m 23°C 75.0 J/m -40°C 8.10 kJ/m² ISO 180	23°C		10.0 kJ/m²	
-30°C 69 kJ/m² 23°C 52 kJ/m² Notched Izod Impact 64.0 J/m ASTM D256 -40°C 64.0 J/m ASTM D256 23°C 75.0 J/m ASTM D256 -40°C 8.10 kJ/m² ISO 180	Charpy Unnotched Impact Strength			ISO 179
Notched Izod Impact 64.0 J/m ASTM D256 -40°C 75.0 J/m ASTM D256 -40°C 8.10 kJ/m² ISO 180			69 kJ/m²	
-40°C 64.0 J/m ASTM D256 23°C 75.0 J/m ASTM D256 -40°C 8.10 kJ/m² ISO 180	23°C		52 kJ/m²	
23°C 75.0 J/m ASTM D256 -40°C 8.10 kJ/m² ISO 180	Notched Izod Impact			
-40°C 8.10 kJ/m ² ISO 180	-40°C		64.0 J/m	ASTM D256
	23°C		75.0 J/m	ASTM D256
23°C 8.20 kJ/m ² ISO 180			8.10 kJ/m ²	ISO 180
	23°C		8.20 kJ/m ²	ISO 180

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Ultradur® B 4040 G10 BK5110 Polybutylene Terephthalate BASF Corporation

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
0.45 MPa, Unannealed	220 °C	ASTM D648
0.45 MPa	221 °C	ISO 75-2 ²
1.8 MPa, Unannealed	215 °C	ASTM D648
1.8 MPa	205 °C	ISO 75-2 ²
Melting Temperature	223 °C	ASTM D3418 ISO 3146
CLTE - Flow	0.000025 cm/cm/°C	ISO 11359-2
Electrical	Nominal Value Unit	Test Method
Surface Resistivity ³	1.0E+13 ohms	ASTM D257 IEC 60093 ²
Volume Resistivity		
1.50 mm	> 1.0E+13 ohm cm	ASTM D257
	> 1.0E+11 ohm∙m	IEC 60093 ²
Relative Permittivity		IEC 60250 ²
100 Hz	4.00	
1 MHz	4.00	
Dissipation Factor		IEC 60250 ²
100 Hz	12	
1 MHz	150	

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.

³ 1.5 mm

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