

Ultradur® B 4040 G10 BK5110

Polybutylene Terephthalate/Polyethylene Terephthalate



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.

Applications

Typical applications include automotive exterior, door handles, exterior mirror housings, rear screen, wiper arms.

PHYSICAL	ISO Test Method	Property Value
Density, g/cm	1183	1.73
Viscosity Number, cm/g	1628	97
Moisture, %	62	
(50% RH)		0.12
(Saturation)		0.4
RHEOLOGICAL	ISO Test Method	Property Value
Melt Volume Rate (275 C/2.16 Kg), cc/10min.	1133	6
MECHANICAL	ISO Test Method	Property Value
Tensile Modulus, MPa	527	
23C		16,500
Tensile stress at break, MPa	527	
23C		155
Tensile strain at break, %	527	
23C		1.5
Flexural Strength, MPa	178	
23C		225
Flexural Modulus, MPa	178	
23C		15,000
IMPACT	ISO Test Method	Property Value
Izod Notched Impact, kJ/m ²	180	
23C		8.2
-40C		8.1
Charpy Notched, kJ/m ²	179	
23C		10
-30C		8.5
Charpy Unnotched, kJ/m ²	179	
23C		52
-30C		69
THERMAL	ISO Test Method	Property Value
Melting Point, C	3146	223
HDT A, C	75	205
HDT B, C	75	221
Coef. of Linear Thermal Expansion, Parallel, mm/mm C		0.25 X10-4



ELECTRICAL	ISO Test Method	Property Value
Volume Resistivity	IEC 60093	>1E13
Surface Resistivity	IEC 60093	1E13
Dielectric Constant (100 Hz)	IEC 60250	4
Dielectric Constant (1 MHz)	IEC 60250	4
Dissipation Factor (100 Hz)	IEC 60250	12
Dissipation Factor (1 MHz)	IEC 60250	150

Note

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