

Ultradur® B 4300 G6 High Speed Unc.

PBT (Polybutylene Terephthalate)



Product Description

Ultradur B 4300 G6 High Speed Unc. is a high flow, fast cycling with low warpage, 30% glass filled, injection molding PBT for industrial parts, rigid tough and dimensional stable applications.

Applications

Typical applications include windshield wiper arms, printed circuit boards, housing, consoles, contact carriers, covers.

PHYSICAL	ISO Test Method	Property Value
Density, g/cm	1183	1.53
Viscosity Number, cm/g	1628	85
Mold Shrinkage, parallel, %	294-4	0.2
Mold Shrinkage, normal, %	294-4	1.1
Moisture, %	62	
(50% RH)		0.2
(Saturation)		0.4
RHEOLOGICAL	ISO Test Method	Property Value
Melt Volume Rate (250 C/2.16 Kg), cc/10min.	1133	29
MECHANICAL	ISO Test Method	Property Value
Tensile Modulus, MPa	527	
23C		9,800
Tensile stress at break, MPa	527	
23C		145
Tensile strain at break, %	527	
23C		2.7
Flexural Strength, MPa	178	
23C		210
IMPACT	ISO Test Method	Property Value
Charpy Notched, kJ/m ²	179	
23C		10
Charpy Unnotched, kJ/m ²	179	
23C		60
THERMAL	ISO Test Method	Property Value
Melting Point, C	3146	223
HDT A, C	75	200
HDT B, C	75	220
Coef. of Linear Thermal Expansion, Parallel, mm/mm C		0.25 X10-4
ELECTRICAL	ISO Test Method	Property Value
Comparative Tracking Index	IEC 60112	400
Volume Resistivity	IEC 60093	>1E13
Surface Resistivity	IEC 60093	1E13
Dielectric Constant (100 Hz)	IEC 60250	3.9



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Dielectric Constant (1 MHz)	IEC 60250	3.7
Dissipation Factor (100 Hz)	IEC 60250	33
Dissipation Factor (1 MHz)	IEC 60250	190

Note

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