


<b>Product Information</b>	<b>Ultradur<sup>®</sup> S</b>	 <b>BASF</b> The Chemical Company
	<b>4090 G4</b>	
	<b>PBT</b>	
	<b>(Polybutylene</b>	
	<b>Terephthalate)</b>	
<b>Oct 2009</b>		

#### Product Description

Ultradur S 4090 G4 is a 20% glass reinforced PBT+ASA blend. It produces moldings with good surface finish, is resistant to chemicals and stress cracking, and has low shrinkage and warpage.

#### Applications

Applications include highly stressed equipment housings in the automotive, electrical and household sectors.

PHYSICAL	ISO Test Method	Property Value
Density, g/cm <sup>3</sup>	1183	1.39
Viscosity Number, cm <sup>3</sup> /g	1628	105
Mold Shrinkage, parallel, %	294-4	0.43
Mold Shrinkage, normal, %	294-4	0.74
Moisture, %	62	
(50% RH)		0.2
(Saturation)		0.4

RHEOLOGICAL	ISO Test Method	Property Value
Melt Volume Rate (275 °C/2.16 Kg), cc/10min.	1133	20

MECHANICAL	ISO Test Method	Property Value
Tensile Modulus, MPa	527	
23°C		6,900
Tensile stress at break, MPa	527	
-40°C		160
23°C		100
80°C		68
121°C		42

Tensile strain at break, %	527	
23°C		2.5
Flexural Modulus, MPa	178	
23°C		6,400
Tensile Creep Modulus (1000h), MPa	899	4,700
Tensile Creep Modulus (1h), MPa	899	5,300
<b>IMPACT</b>	<b>ISO Test Method</b>	<b>Property Value</b>
Charpy Notched, kJ/m <sup>2</sup>	179	
23°C		7
Charpy Unnotched, kJ/m <sup>2</sup>	179	
23°C		55
-30°C		43
<b>THERMAL</b>	<b>ISO Test Method</b>	<b>Property Value</b>
Melting Point, °C	3146	223
HDT A, °C	75	160
HDT B, °C	75	205
Coef. of Linear Thermal Expansion, Parallel, mm/mm °C		.4 X10 <sup>-4</sup>
<b>ELECTRICAL</b>	<b>ISO Test Method</b>	<b>Property Value</b>
Comparative Tracking Index	IEC 60112	450
Volume Resistivity	IEC 60093	>1E13
Surface Resistivity	IEC 60093	1E14
Dielectric Constant (100 Hz)	IEC 60250	3.7
Dielectric Constant (1 MHz)	IEC 60250	3.6
Dissipation Factor (100 Hz)	IEC 60250	30
Dissipation Factor (1 MHz)	IEC 60250	190
<b>UL RATINGS</b>	<b>ISO Test Method</b>	<b>Property Value</b>
Flammability Rating, 1.5mm	UL94	HB
Relative Temperature Index, 1.5mm	UL746B	
Mechanical w/o Impact, °C		130
Mechanical w/ Impact, °C		90
Electrical, °C		130

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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