

**Product Texts**

Genestar TA112 is a reinforced injection grade.

Main features of TA112 are:

- High reflectivity
- Less color change by heat and light
- Well balanced mechanical strength

Example of applications is:

- LED reflectors

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Molding shrinkage, parallel	0.5	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	1.0	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Strength	83	MPa	ISO 527
<sup>[C]</sup> Stress at break	85	MPa	ISO 527
<sup>[C]</sup> Strain at break	2	%	ISO 527
Flexural modulus, 23°C	6200	MPa	ISO 178
Flexural strength	143	MPa	ISO 178
<b>ASTM Data</b>			
Tensile Strength	75	MPa	ASTM D 638
Elongation at Break	1.5	%	ASTM D 638
Flexural Modulus	6000	MPa	ASTM D 790
Flexural Strength	140	MPa	ASTM D 790

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	306	°C	ISO 11357-1/-3
<sup>[C]</sup> Glass transition temperature, 10°C/min	125	°C	ISO 11357-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	290	°C	ISO 75-1/-2
Burning behav. at thickness h	HB	class	IEC 60695-11-10
<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	3	mm	-
DTUL @ 264 psi	275	°C	ASTM D 648

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Water absorption	0.16	%	Sim. to ISO 62
Density	1480	kg/m <sup>3</sup>	ISO 1183
Density	1480	kg/m <sup>3</sup>	ASTM D 792

[C]: CAMPUS

**Characteristics**

**Processing**

Injection Molding

**Special Characteristics**

Light stabilized or stable to light, Heat stabilized or stable to heat

**Features**

Color Stability

**Applications**

Electrical and Electronical

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa