

Starester[®]






Polybutylene Terephthalate (PBT)

Technical Data Sheet


Nantong Xingchen Synthetic Material Co., LTD
Nantong Zhonglan Engineering Plastic Co., LTD

Starester[®] 201-G15 202

Starester[®] 201-G15 202 is a 15% glassfiber reinforced and flame retardant polybutylene terephthalate (PBT) for injection molding.

TYPICAL PROPERTIES	TYPICAL VALUE	UNIT	TEST METHOD
 PHYSICAL			
Specific Gravity	1.52	g/cm ³	ISO 1183-1-2012
Melt Flow Rate, 250°C/2.16kg	20	g/10min	ISO 1133:2011
Molding shrinkage (parallel)	-	%	ISO 294-4
Molding shrinkage (normal)	-	%	ISO 294-4
 MECHANICAL			
Tensile Stress at break, 10mm/min	100	MPa	ISO 527-2
Tensile Strain at break, 10mm/min	-	%	ISO 527-2
Flexural Strength, 2mm/min	150	MPa	ISO 178:2010
Flexural Modulus, 2mm/min	6000	MPa	ISO 178:2010
Charpy Impact, notched, 23°C	5.5	KJ/m ²	ISO 179
Charpy Impact, unnotched, 23°C	35	KJ/m ²	ISO 179
 THERMAL			
HDT, 1.80MPa, 3.2mm, unannealed	198	°C	ISO 75-1/-2
HDT, 0.45MPa, 3.2mm, unannealed	203	°C	ISO 75-1/-2
 FLAMMABILITY			
Flammability, 0.8-3.2mm	V-0	-	UL 94
Glow-Wire Ignition Temperature	-	°C	IEC 60695-2-1/2
 ELECTRICAL			
Volume Resistivity	1.0×10 ¹⁶	Ω·cm	IEC 60093
Dielectric Strength, in oil	19	KV/mm	IEC 60243-1
Relative Dielectric Constant, 50Hz	3.2	-	IEC 60250
Dissipation Factor, 50/60Hz	0.02	-	IEC 60250
Comparative Tracking Index (CTI)	-	V	IEC 60112

Processing Parameters

PROCESSING PARAMETERS	TYPICAL VALUE	UNIT
 INJECTION MOLDING		
Drying Temperature	120-140	°C
Drying Time	3-4	hrs
Melt Temperature	240-280	°C
Nozzle Temperature	240-280	°C
Mold Temperature	30-80	°C
Injection Pressure	70-120	MPa
Back Pressure	6-18	MPa
Screw Speed	<100	rpm

NOTE: Injection Pressure, Back Pressure and Screw Speed are only mentioned as general guidelines. These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding.

Starester[®] Grade Compositions

Starester[®] is a crystalline thermoplastic based on polybutylene terephthalate (PBT) that can be readily strengthened, or otherwise performance-enhanced through the addition of glass fibers or other inorganic filler additives. Therefore, as grades can be optimally designed depending on the application, various grades are provided, including flame retardant grades, reinforced grades, directly metallization grades, impact-resistant grades, low oligomer and low gas emission grades, hydrolysis resistance grades and special alloy grades.

Notes to Users

- ★ All property values shown in this brochure are the typical values obtained under conditions prescribed by applicable standards and test methods.
- ★ This brochure has been prepared based on our own experiences and laboratory test data, and therefore all data shown here are not always applicable to parts used under different conditions. We do not guarantee that these data are directly applicable to the application conditions of users and we ask each user to make his own decision on the application.
- ★ It is the users' responsibility to investigate patent rights, service life and potentiality of applications introduced in this brochure. Materials we supply are not intended for the implant applications in the medical and dental fields, and therefore are not recommended for such uses.
- ★ For all works done properly, it is advised to refer to appropriate Technical Catalog for specific material processing.
- ★ For safe handling of materials we supply, it is advised to refer to the Material Safety Data Sheet "MSDS" of the proper material.
- ★ This brochure is edited based on reference literatures, information and data currently available to us. So the contents of this brochure are subject to change without notice due to new data.
- ★ Please contact our office for any questions about products we supply, descriptive literatures or any description in this brochure.

Contact Information

Company

Nantong Xingchen Synthetic Material Co., LTD.
Nantong Zhonglan Engineering Plastic Co., LTD.

Address

18, Jianggang Rd, Nantong Economic Development Zone,
Jiangsu Province, PRC, China (Postcode: 226017)

Telephone


+86-0513-85997855 Global Market
+86-0513-85997877 Key Account Customer China
+86-0513-85997886 East China Market
+86-0513-85997898 E-commerce Platform

Email

Plastic@bluestar.chemchina.com

Website

<http://www.starester.com>



Nantong Zhonglan Engineering
Plastic Co., LTD.

