

Triax® 1120

丙烯腈丁二烯苯乙烯+ 尼龙

INEOS Styrolution

Technical Data

Product Description

Triax 1120 is an ABS (Acrylonitrile Butadiene Styrene) and polyamide alloy for injection molding.

FEATURES

- Excellent processability
- Good chemical resistance
- Good fatigue performance
- Excellent abrasion resistance
- UL 94HB certified

APPLICATIONS

- Housings
- Handles and shrouds
- Automotive fasteners
- Automotive interior applications

General

Features	<ul style="list-style-type: none"> • 良好的加工性能 • 耐化学品性能，良好 	<ul style="list-style-type: none"> • 耐磨损性，良好 • 耐疲劳性能 	
Uses	<ul style="list-style-type: none"> • 把手 • 汽车领域的应用 	<ul style="list-style-type: none"> • 汽车内部零件 • 外壳 	
Automotive Specifications	<ul style="list-style-type: none"> • CHRYSLER MS-DB-220 Type A CPN3399 Color: 原色 • CHRYSLER MS-DB-220 Type B CPN3426 Color: 黑色 	<ul style="list-style-type: none"> • FORD WSS-M4D960-A • GM GMP.ABS+PA.001 	<ul style="list-style-type: none"> • GM GMW15580P-ABS+PA6-T2 • HYUNDAI MS300-34
Forms	<ul style="list-style-type: none"> • 粒子 		
Processing Method	<ul style="list-style-type: none"> • 注射成型 		
Multi-Point Data	<ul style="list-style-type: none"> • Isochronous Stress vs. Strain (ISO 11403-1) • Isothermal Stress vs. Strain (ISO 11403-1) 	<ul style="list-style-type: none"> • Secant Modulus vs. Strain (ISO 11403-1) • Shear Modulus vs. Temperature (ISO 11403-1) 	<ul style="list-style-type: none"> • Viscosity vs. Shear Rate (ISO 11403-2)

Physical	额定值 单位制	测试方法
Density / Specific Gravity	1.06 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/5.0 kg)	6.5 g/10 min	ASTM D1238
Mechanical	额定值 单位制	测试方法
Tensile Strength (屈服, 23°C)	40.0 MPa	ASTM D638
Flexural Modulus (23°C)	1170 MPa	ASTM D790
Films	额定值 单位制	测试方法
Elastic Modulus - MD	56.9 MPa	ASTM D882
Impact	额定值 单位制	测试方法
Notched Izod Impact		ASTM D256
-40°C	75 J/m	
23°C	750 J/m	
Instrumented Dart Impact (Total Energy)	4.07 J	ASTM D3763
渗透冲击 - Maximum Force, FM (-30°C)	6.50	
Hardness	额定值 单位制	测试方法
Rockwell Hardness (R 级)	90	ASTM D785

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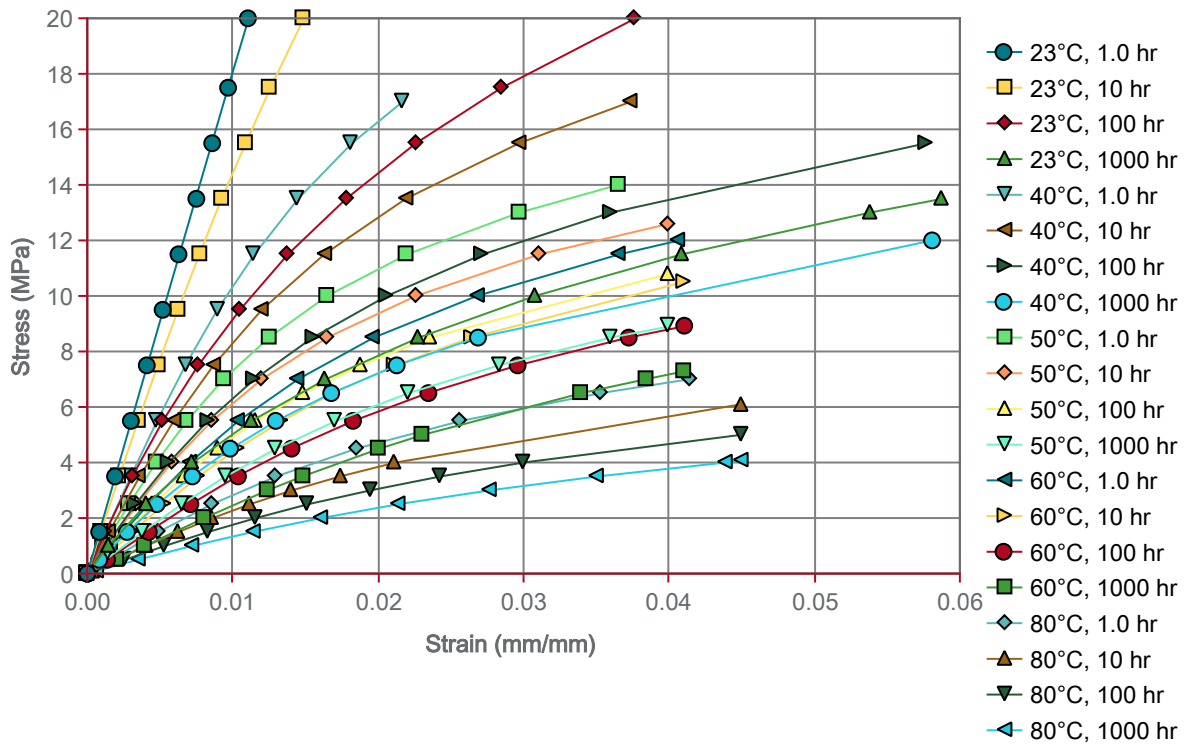
Thermal	额定值 单位制	测试方法
Deflection Temperature Under Load		ASTM D648
0.45 MPa, 未退火	87.8 °C	
1.8 MPa, 未退火	62.2 °C	
CLTE - 流动	1.1E-4 cm/cm/°C	ASTM D696
Electrical	额定值 单位制	测试方法
Dielectric Strength (1.50 mm, 方法 A (短时间))	15 kV/mm	ASTM D149
Dielectric Constant (100 Hz)	3.50	ASTM D150
Dissipation Factor (1 MHz)	3.9E-6	ASTM D150
Flammability	额定值 单位制	测试方法
Flame Rating	HB	UL 94
Optical	额定值 单位制	测试方法
Gloss (60°)	91	ASTM D523
Injection	额定值 单位制	
Processing (Melt) Temp	238 到 271 °C	
Mold Temperature	38 到 66 °C	

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Isochronous Stress vs. Strain (ISO 11403-1)

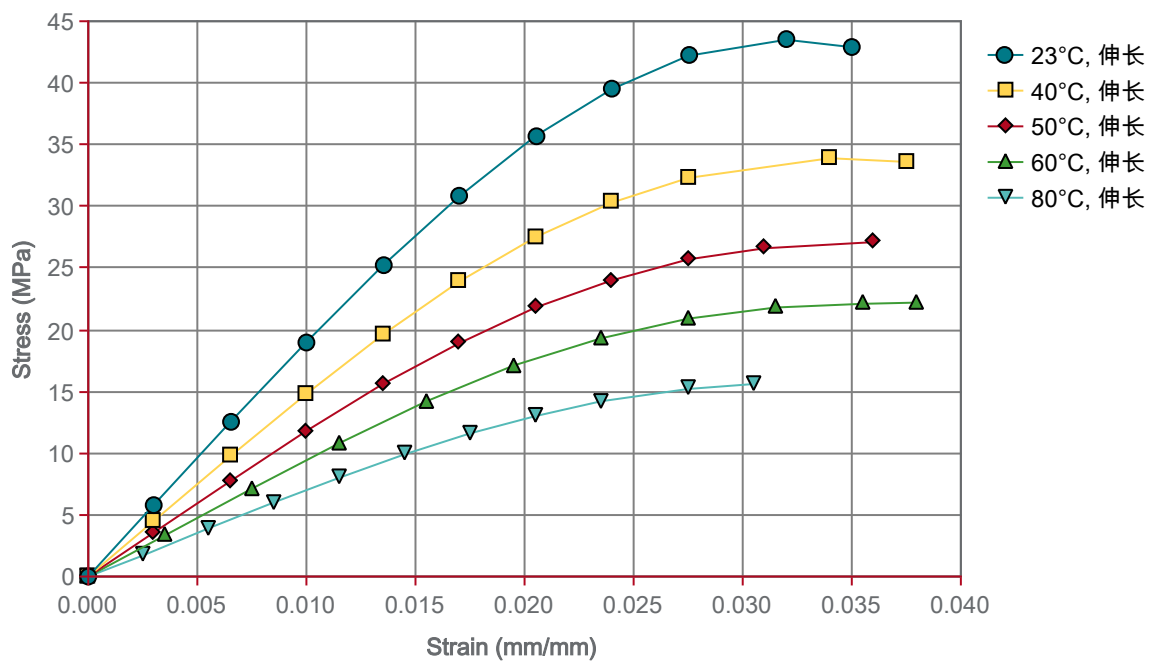


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Isothermal Stress vs. Strain (ISO 11403-1)

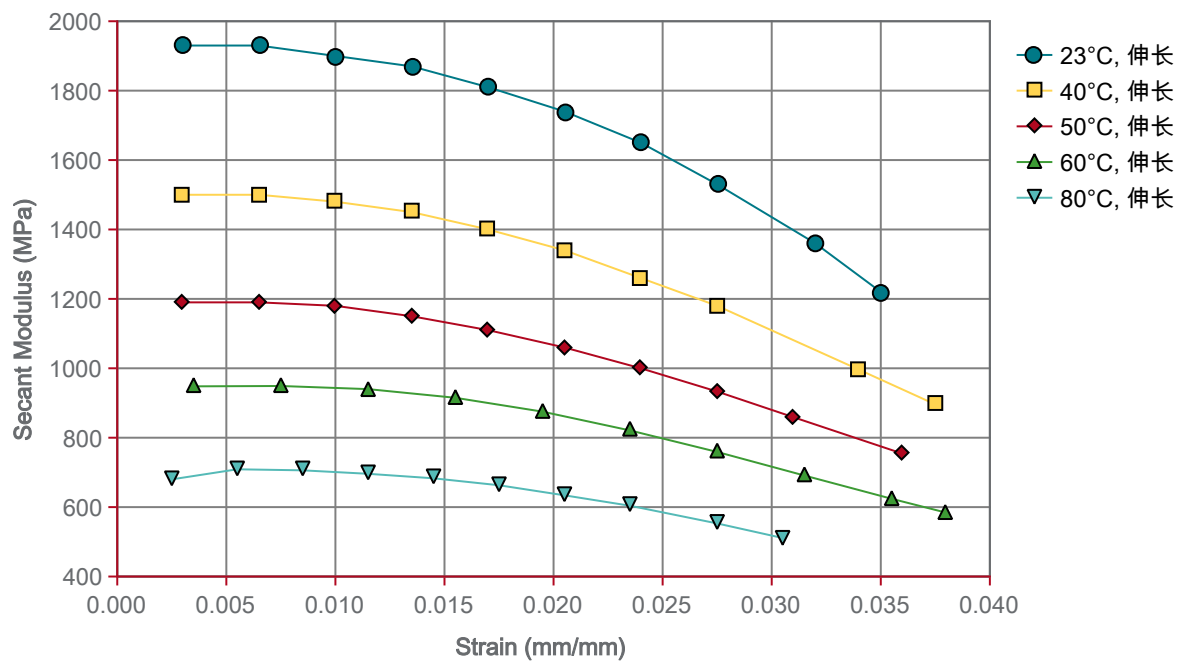


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Secant Modulus vs. Strain (ISO 11403-1)

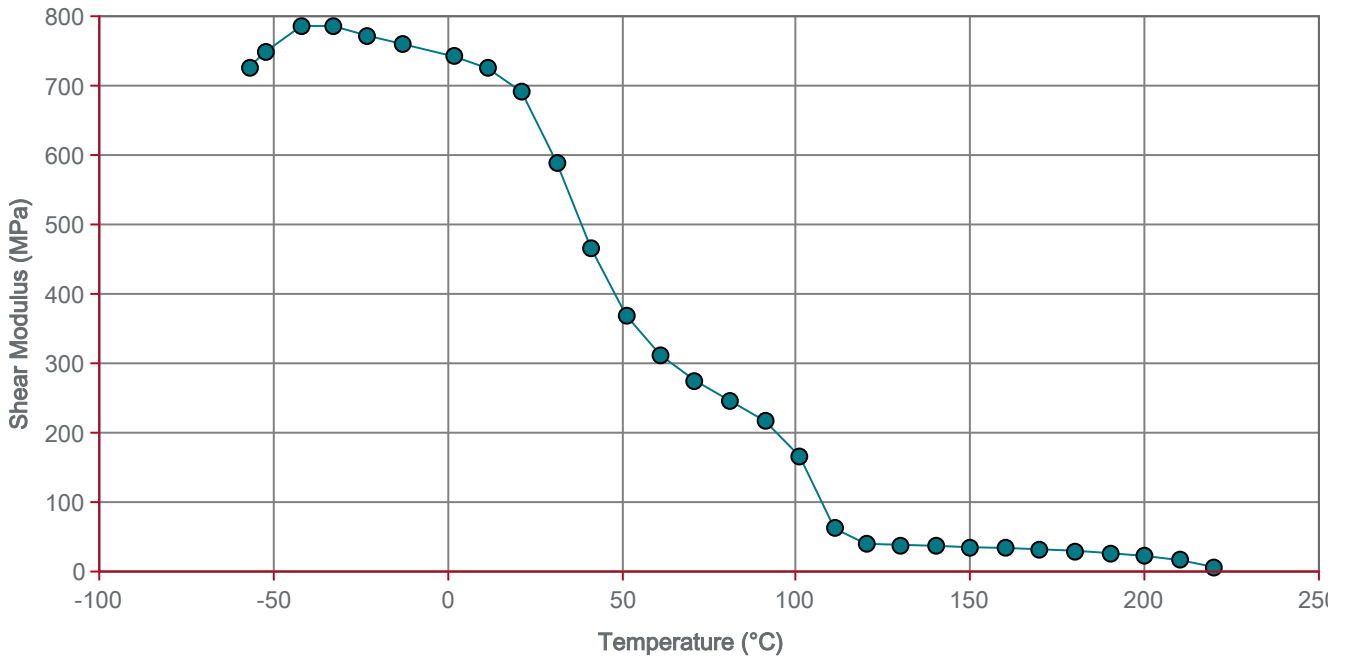


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Shear Modulus vs. Temperature (ISO 11403-1)



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Viscosity vs. Shear Rate (ISO 11403-2)

