

# Triax 1120

Acrylonitrile Butadiene Styrene / Polyamide (ABS/PA)

## TECHNICAL DATASHEET

### 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

Property, Test Condition	Standard	Unit	Values
<b>Rheological Properties</b>			
Melt Flow Rate, 250 °C/5 kg	ASTM D 1238	g/10 min	6.5
<b>Mechanical Properties</b>			
Izod Notched Impact Strength, 23 °C (73 °F)	ASTM D 256	ft-lb/in	14
Izod Notched Impact Strength, -40 °C (-40 °F)	ASTM D 256	ft-lb/in	1.4
Instrumented Dart Impact (total energy)	ASTM D 3763	in-lbs	36
Tensile Stress at Yield, 23 °C	ASTM D 638	psi	5800
Tensile Modulus (MD)	ASTM D 882	psi	8250
Flexural Modulus, 23 °C	ASTM D 790	psi x 10 <sup>3</sup>	170
Hardness, Rockwell	ASTM D 785	R scale	90
Maximum Force, FM - Penetration Test, -30 °C	-	-	6.5
<b>Thermal Properties</b>			
DTUL @ 264 psi - Unannealed	ASTM D 648	°F	144
DTUL @ 66 psi - Unannealed	ASTM D 648	°F	190
Coefficient of Linear Thermal Expansion	ASTM D 696	10 <sup>-4</sup> /°F	0.63
<b>Electrical Properties</b>			
Dielectric Constant (100 Hz)	-	-	3.5

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Property, Test Condition	Standard	Unit	Values
Dissipation Factor (1 MHz)	-	10 <sup>-4</sup>	0.039
Dielectric Strength, Short Time, 1.5 mm	-	-	380
<b>Optical Properties</b>			
Specular Gloss, 60 °	ASTM D 523		91
<b>Other Properties</b>			
Density	ASTM D 792	lb/in <sup>3</sup>	1.06
<b>Processing</b>			
Melt Temperature Range	-	°F	460 - 520
Mold Temperature Range	-	°F	100 - 150