

INEOS STYROLUTION

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
Rheological Properties			
Melt Flow Rate, 250 °C/5 kg	ASTM D 1238	g/10 min	6.5
Mechanical Properties			
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 ³	170
Hardness, Rockwell	ASTM D 785	R scale	90
Maximum Force, FM - Penetration Test, -30 °C	-	-	6.5
Thermal Properties			
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 ⁻⁴ /°F	0.63
Electrical Properties			
Dielectric Constant (100 Hz)	-	-	3.5

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Dissipation Factor (1 MHz)	-	10 ⁻⁴	0.039
Dielectric Strength, Short Time, 1.5 mm	-	-	380
Optical Properties			
Specular Gloss, 60 °	ASTM D 523		91
Other Properties			
Density	ASTM D 792	lb/in ³	1.06
Processing			
Melt Temperature Range	-	°F	460 - 520
Mold Temperature Range	-	°F	100 - 150
Linear Mold Shrinkage	ASTM D 955	in/in	0.01

Typical values for uncolored products

Please note that all processing data stated are only indicative and may vary depending on the individual processing complexities.

Please consult our local sales or technical representatives for details.

SUPPLY FORM

Triax resins are available in bulk railcar, bulk truckload and 726kg box quantities.

REGULATORY COMPLIANCE

Please refer to Styrolution web site or contact Styrolution Technical Service for further information.

PRODUCT SAFETY

Safety Data Sheets and product labels provide information concerning the health and safety precautions that must be observed when handling the Styrolution products mentioned in this publication. No adverse effects on the health of processing personnel have been observed if the products are correctly processed and the production areas are suitably ventilated. For styrene, acrylonitrile, alpha-methyl styrene, maleic anhydride and 1, 3-butadiene, the maximum allowable workplace concentrations must be observed according to current local and federal regulations. Before working with any of these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. This information is available in safety data sheets and on product labels. If there are questions or concerns, consult your Styrolution representative or contact the Product Safety and Regulatory Affairs Department at Styrolution.

DISCLAIMER

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Page 2 of 3
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The above mentioned data are accurate to the best of our knowledge. They are based upon reputable labs and industry standard testing methods. These are only typical values and actual product specification may deviate at industrial range. Therefore, no data in this technical data sheet shall constitute a warranty or representation regarding product features, fitness of the product for a specific purpose or application or its processability. INEOS Styrolution disclaims all liability in connection therewith. The customer himself is required to verify whether or not the product is suitable for the further processing or application intended and whether or not the product complies with the relevant statutory requirements. Unless explicitly and individually otherwise agreed in writing, INEOS Styrolution's sole and exclusive liability with respect to its products is set forth in INEOS Styrolution's General Terms and Conditions for Sale.