

Jedamid ST150L GX3

Polyamide 66 Supertough Containing Graphene

General Information

Product Description

Jedamid ST150L BK2091 GX3 is an unreinforced, super toughened, polyamide 66 containing graphene.

General

Material Status:	• Commercial: Active			
Regional Availability:	• North America			
Filler/Reinforcement:	• None			
Additive:	• Impact Modifier	• Graphene		
Recycled Content:	• No			
Features:	• High Impact	• Reduced Shear	• Fast Cycling	• Improved Surface
Uses:	• Automotive	• Agriculture	• Sporting Goods	• Fasteners
	• Zip Ties			
Appearance:	• Natural Color (DK GY)			
Form:	• Pellet			
Processing Method:	• Injection Molding			

Properties

Physical	Typical Value, DAM	Typical Value, Conditioned	Test Method
Density/Specific Gravity	1.08 g/cm ³		ASTM D792
Melt Mass-Flow Rate (MFR) 275 °C/2.16 kg	20.0 g/10 min		ASTM D1238
Molding Shrinkage –			ASTM D955
Flow	1.8 %		
Across Flow	1.4%		
Mechanical			
Tensile Modulus, psi	295,000	150,000	ASTM D638
Tensile Strength, Yield, psi	7,400	6,500	ASTM D638
Tensile Elongation (Yield), %	6.0	35.0	ASTM D638
Tensile Elongation (Break), %	60.0	>100	ASTM D638
Flexural Strength (Yield), psi	10,100		ASTM D790
Flexural Modulus, psi	280,000	120,000	ASTM D790
Impact			
Notched Izod Impact Strength, ft-lb/in			ASTM D256
-22°F (-30°C)	4.5	4.5	
73°F (23°C)	16.0	19.3	
Thermal			
Deflection Temperature Under Load			
264 psi (1.8 MPa), Annealed, 0.125 in	160 °F		ASTM D648
Peak Melting Temperature	505 °F		ASTM D3418



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Injection

Drying Temperature, °F	180
Drying Time, hr	2-4
Suggested Max Moisture, %	0.20
Processing Melt Temperature, °F	536 to 572
Melt Temperature, Optimum, °F	554
Mold Temperature, °F	122 to 212 °F
Mold Temperature, Optimum, °F	176 °F
Back pressure	As low as possible
Hold Pressure Time	4.0 sec/mm
Screw Tangential Speed	<710 in/min

Mechanical properties measured at 23°C (73°F)

Contact JEDA Polymers, LLC for MSDS, general guidelines and/or additional information about ventilation, handling, purging, drying, etc.

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