

# Eastar™ GN120

Copolyester  
Eastman Chemical Company

Message:

Eastar™ GN120 Copolyester is a high flow product and contains a mold release. Other outstanding features of Eastar™ GN120 are easily maintained such as excellent appearance and clarity, good physical properties, chemical resistance, and easy processing. Eastar™ GN120 is for sale only in Asia as a high-flow formulation.

General Information			
Additive	Mold Release		
Features	Good Chemical Resistance		
	Good Mold Release		
	Good Processability		
	Good Toughness		
	High Clarity		
	High Flow		
	Pleasing Surface Appearance		
Uses	Appliances		
	Consumer Applications		
	Cosmetics		
	Electrical/Electronic Applications		
	Personal Care		
	Stationary Supplies		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	107		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 23°C	48.0	MPa	
Break, 23°C	24.0	MPa	
Tensile Elongation			ASTM D638
Yield, 23°C	4.0	%	
Break, 23°C	75	%	
Flexural Modulus (23°C)	1900	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	66.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			ASTM D256
-40°C	46	J/m	
23°C	84	J/m	
Unnotched Izod Impact			
-40°C	No Break		ASTM D4218
23°C	No Break		ASTM D4812
Instrumented Dart Impact			ASTM D3763
-40°C, Energy at Peak Load	44.0	J	
23°C, Energy at Peak Load	35.0	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	68.0	°C	
1.8 MPa, Unannealed	44.0	°C	
Optical	Nominal Value	Unit	Test Method
Transmittance (Total)	91.0	%	ASTM D1003
Haze	0.40	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	71.0	°C	
Drying Time	6.0	hr	
Processing (Melt) Temp	249 to 271	°C	
Mold Temperature	16.0 to 38.0	°C	

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#### Recommended distributors for this material

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