

Eastar™ GN071, Natural

Copolyester
Eastman Chemical Company

Message:

Eastar™ GN071 Copolyester is used for injection molding applications. It is sparkling clear, tough, chemical resistant, odor free, versatile, easy to work with and affordable. Cleaning solutions will not turn Eastar™ GN071 white.

This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®.

The GREENGUARD INDOOR AIR QUALITY CERTIFIED® Mark is a registered certification mark used under license through the GREENGUARD Environmental Institute (GEI). GEI is an industry-independent, non-profit organization that oversees the GREENGUARD Certification Program. The GREENGUARD Certification Program is an industry independent, third-party testing program for low-emitting products and materials for indoor environments. For more information about GEI and to obtain printable certificates for Eastman™ Copolyesters, visit www.greenguard.org. Choose Eastman Chemical Company under the Manufacturer category and click search to display a list of our products.

This product has been CRADLE TO CRADLE CERTIFIED Silver.

The CRADLE TO CRADLE CERTIFIED Mark is a registered certification mark used under license through McDonough Braungart Design Chemistry (MBDC). MBDC is a global sustainability consulting and product certification firm. The CRADLE TO CRADLE® framework moves beyond the traditional goal of reducing the negative impacts of commerce ('eco-efficiency'), to a new paradigm of increasing its positive impacts ('eco-effectiveness'). At its core, Cradle to Cradle design perceives the safe and productive processes of nature's 'biological metabolism' as a model for developing a 'technical metabolism' flow of industrial materials. Product components can be designed for continuous recovery and reutilization as biological and technical nutrients within these metabolisms. For more information about MBDC and to obtain printable certificates for Eastman Copolyesters, visit www.mbdc.com. Choose Eastman Chemical Company under Company Name in C2C Certified products to display a list of our products.

General Information		
UL YellowCard	E118289-267960	E118289-267961
Features	Barrier Resin	
	Cleanable	
	Excellent Printability	
	Good Chemical Resistance	
	Good Colorability	
	Good Impact Resistance	
	Good Processability	
	Good Stiffness	
	Good Toughness	
	High Clarity	
	High Gloss	
	Low to No Odor	
Uses	Cosmetic Packaging	
	Furniture	
	Household Goods	
	Packaging	
	Personal Care	
	Sporting Goods	
	Stationary Supplies	
	Toys	
	Writing Instruments	

Appearance	Natural Color		
Forms	Pellets		
Processing Method	Extrusion		
	Injection Molding		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.50	%	ASTM D955

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	108		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	2030	MPa	ASTM D638
23°C	2000	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	50.0	MPa	ASTM D638
Yield, 23°C	48.0	MPa	ISO 527-2
Break, 23°C	30.0	MPa	ASTM D638
Break, 23°C	29.0	MPa	ISO 527-2
Tensile Elongation			
Yield, 23°C	4.4	%	ASTM D638
Yield, 23°C	4.0	%	ISO 527-2
Break, 23°C	180	%	ASTM D638
Break, 23°C	200	%	ISO 527-2
Flexural Modulus			
23°C	2060	MPa	ASTM D790
23°C	2100	MPa	ISO 178
Flexural Strength			
23°C	68.0	MPa	ASTM D790
23°C	67.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-40°C	40	J/m	ASTM D256
23°C	110	J/m	ASTM D256
-40°C	4.4	kJ/m ²	ISO 180
23°C	9.4	kJ/m ²	ISO 180
Unnotched Izod Impact			ASTM D4218
-40°C	No Break		
23°C	No Break		

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			

0.45 MPa, Unannealed	70.0	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	62.0	°C	ASTM D648, ISO 75-2/A
Optical	Nominal Value	Unit	Test Method
Transmittance (Total)	90.0	%	ASTM D1003
Haze	0.20	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	63.0	°C	
Drying Time	6.0 to 8.0	hr	
Processing (Melt) Temp	249 to 271	°C	
Mold Temperature	16.0 to 38.0	°C	

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