

Eastar™ GN078

Copolyester
Eastman Chemical Company

Message:

Eastar™ Copolyester GN078 has superior water clarity. It also has superior chemical resistance among the copolyester portfolio and is an excellent product for large tough bottles. Eastar™ Copolyester GN078 is an environmentally responsible material that contains no halogens or orthophthlate plasticizers.

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.

General Information			
Features	Good Chemical Resistance		
	Good Toughness		
	Halogen Free		
	High Clarity		
Uses	Bottles		
	Caps		
	Cosmetic Packaging		
	Packaging		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30	%	ASTM D955
Color			ASTM D2244
a	-0.20		
b	0.60		
L	95		
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	1900	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	47.0	MPa	
Break, 23°C	48.0	MPa	
Tensile Elongation			ASTM D638
Yield, 23°C	5.0	%	
Break, 23°C	300	%	

Flexural Modulus (23°C)	1900	MPa	ASTM D790
Flexural Strength (23°C)	65.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	63	J/m	
23°C	No Break		
Unnotched Izod Impact			ASTM D4218
-40°C	No Break		
23°C	No Break		
Instrumented Dart Impact			ASTM D3763
-40°C, Energy at Peak Load	39.0	J	
0°C, Energy at Peak Load	41.0	J	
23°C, Energy at Peak Load	41.0	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	73.0	°C	
1.8 MPa, Unannealed	63.0	°C	
Vicat Softening Temperature	85.0	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss (60°)	143		ASTM D2457
Transmittance			ASTM D1003
Total	91.0	%	
Regular	87.0	%	
Haze	1.3	%	ASTM D1003

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

