Eastar™ DN010

Copolyester

Eastman Chemical Company

Message:

Eastar™ Copolyester DN010 is a brilliantly clear polymer having excellent impact strength, chemical resistance, and low shrinkage rates. Eastar™ Copolyester DN010 contains no mold release.
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(cm)
The CRADLE TO CRADLE CERTIFIED(cm) 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 http://www.mbdc.com.

General Information			
Features	Good Chemical Resistance		
	Good Impact Resistance		
	High Clarity		
	Low Shrinkage		
Uses	Cosmetics		
	Decorative Displays		
	Personal Care		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.23	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.40	%	ASTM D955
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)	1800	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield, 23°C	44.0	MPa	
Break, 23°C	54.0	MPa	
Tensile Elongation			ASTM D638
Yield, 23°C	4.0	%	
Break, 23°C	330	%	

Flexural Modulus (23°C)	1800	MPa	ASTM D790
Flexural Strength (23°C)	66.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-40°C	77	J/m	
23°C	No Break		
Unnotched Izod Impact			ASTM D4218
-40°C	480	J/m	
23°C	No Break		
Instrumented Dart Impact			ASTM D3763
-40°C, Energy at Peak Load	46.0	J	
23°C, Energy at Peak Load	46.0	J	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	73.0	°C	
1.8 MPa, Unannealed	64.0	°C	
Optical	**Nominal Value**	**Unit**	**Test Method**
Transmittance			ASTM D1003
Total	92.0	%	
Regular	89.0	%	
Haze	< 1.0	%	ASTM D1003
Injection	**Nominal Value**	**Unit**	
Drying Temperature	75.0	°C	
Drying Time	6.0	hr	
Processing (Melt) Temp	249 to 271	°C	
Mold Temperature	16.0 to 38.0	°C	

Recommended distributors for this material

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