

# Eastar™ EN010

Copolyester  
Eastman Chemical Company

Message:

Eastar™ copolyester EN010 is used primarily in molded thick wall European applications. 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](http://www.greenguard.org). Choose Eastman Chemical Company under the Manufacturer category and click search to display a list of our products.

General Information			
Uses	Containers		
	Packaging		
	Thick-walled Parts		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.20 mm)	0.30	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 23°C	55.0	MPa	
Break, 23°C	30.0	MPa	
Tensile Elongation			ASTM D638
Yield, 23°C	4.0	%	
Break, 23°C	130	%	
Flexural Modulus (23°C)	2440	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	76.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	32	J/m	
23°C	54	J/m	
Unnotched Izod Impact			ASTM D4218
-40°C	2400	J/m	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Unannealed	69.0	°C
1.8 MPa, Unannealed	60.0	°C
Injection	Nominal Value	Unit
Drying Temperature	150 to 160	°C
Drying Time	4.0 to 6.0	hr
Processing (Melt) Temp	275 to 295	°C
Mold Temperature	10.0 to 30.0	°C

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#### Recommended distributors for this material

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