

Eastar™ EN058, Natural

Copolyester
Eastman Chemical Company

Message:

Eastar™ EN058 Copolyester is a copolymer PET. It is crystallized.
This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®.
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General Information			
Features	Copolymer		
	Crystalline		
Uses	Cosmetic Packaging		
	Household Goods		
	Packaging		
	Personal Care		
	Sporting Goods		
	Toothbrush Handles		
	Toys		
	Writing Instruments		
Appearance	Natural Color		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.19	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	111		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 23°C	58.0	MPa	
Break, 23°C	24.0	MPa	
Tensile Elongation			ASTM D638
Yield, 23°C	4.0	%	
Break, 23°C	90	%	
Flexural Modulus (23°C)	2400	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	78.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	33	J/m	
23°C	56	J/m	
Unnotched Izod Impact			ASTM D4218
-40°C	2400	J/m	
23°C	No Break		
Instrumented Dart Impact			ASTM D3763
-40°C, Energy at Peak Load	38.0	J	
23°C, Energy at Peak Load	32.0	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	69.0	°C	
1.8 MPa, Unannealed	63.0	°C	
Vicat Softening Temperature	80.0	°C	ASTM D1525 ¹
Optical	Nominal Value	Unit	Test Method
Transmittance (Total)	82.0	%	ASTM D1003
Haze	< 1.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	160	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	277 to 293	°C	
Mold Temperature	16.0 to 32.0	°C	
NOTE			

1. Loading 1 (10 N)

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