

Eastar™ EN076

Copolyester
Eastman Chemical Company

Message:

Eastar™ Copolyester EN076 is recommended for the thick-walled containers that are prevalent in the cosmetics and personal care markets. This copolyester offers good processability with the benefits of glass such as high clarity, brightness, and good color. This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®.

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General Information			
Features	Good Color Stability		
	Good Processability		
	High Clarity		
Uses	Appliance Components		
	Caps		
	Containers		
	Cosmetic Packaging		
	Flooring Maintenance/Repair		
	Personal Care		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
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	56.0	MPa	
Break, 23°C	26.0	MPa	
Tensile Elongation			ASTM D638
Yield, 23°C	4.0	%	
Break, 23°C	75	%	
Flexural Modulus (23°C)	2350	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	74.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256

-40°C	33	J/m	
23°C	67	J/m	
Unnotched Izod Impact			ASTM D4218
-40°C	3200	J/m	
23°C	No Break		
Instrumented Dart Impact			ASTM D3763
-40°C, Energy at Peak Load	45.0	J	
23°C, Energy at Peak Load	31.0	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	69.0	°C	
1.8 MPa, Unannealed	62.0	°C	
Optical	Nominal Value	Unit	Test Method
Transmittance			ASTM D1003
Total	89.0	%	
Regular	86.0	%	
Haze	0.80	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	150	°C	
Drying Time	4.0 to 6.0	hr	
Processing (Melt) Temp	277 to 293	°C	
Mold Temperature	16.0 to 32.0	°C	

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Recommended distributors for this material

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