

# Eastar™ DN001HF

Copolyester  
Eastman Chemical Company

Message:

Eastar™ Copolyester DN001HF has excellent flow characteristics while maintaining superior mechanical properties. It is easy to process and can fill intricate tools. Its most outstanding features are clarity, toughness and chemical resistance.

This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®.

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General Information			
UL YellowCard	E118289-220156		
Features	Workability, good		
	Good liquidity		
	Good chemical resistance		
	Good toughness		
	Medium transparency		
Uses	Decorative Displays		
	Personal care		
	Cosmetics		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow	0.30	%	ASTM D955
Water Absorption (23°C, 24 hr)	0.15	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	104		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 23°C	47.0	MPa	ASTM D638
Fracture, 23°C	38.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 23°C	5.0	%	ASTM D638
Fracture, 23°C	260	%	ASTM D638
Flexural Modulus (23°C)	1900	MPa	ASTM D790
Flexural Strength (Yield, 23°C)	65.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			ASTM D256
-40°C	69	J/m	ASTM D256
23°C	No Break		ASTM D256
Unnotched Izod Impact			ASTM D4218
-40°C	No Break		ASTM D4218
23°C	No Break		ASTM D4218
Instrumented Dart Impact			ASTM D3763
-40°C, Energy at Peak Load	46.0	J	ASTM D3763
23°C, Energy at Peak Load	47.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	70.0	°C	ASTM D648
1.8 MPa, not annealed	67.0	°C	ASTM D648
Vicat Softening Temperature	84.0	°C	ASTM D1525 <sup>1</sup>
Optical	Nominal Value	Unit	Test Method
Transmittance (Total)	90.0	%	ASTM D1003
Haze	1.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	71.0	°C	
Drying Time	6.0	hr	
Processing (Melt) Temp	250 - 270	°C	
Mold Temperature	15.0 - 30.0	°C	
NOTE			

1. 压力1 (10N)

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#### Recommended distributors for this material

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