

# Eastar™ AN014, Natural

Copolyester

Eastman Chemical Company

## Message:

Eastar™ AN014 copolyester is a high flow product that contains a mold release. Eastar™ AN014 flow lengths are increased 20-40% relative to Eastar™ AN004 as shown by spiral flow testing. Other outstanding features of Eastar™ are easily maintained such as excellent appearance and clarity, good physical properties, chemical resistance, and easy processing. This high flow product is especially suited for those applications utilizing thin-walled intricate tools. Under existing United States Food and Drug Administration (FDA) regulations, Eastar™ AN014 may be used in food contact articles which comply with the specifications and conditions of use in 21 CFR 177.1240.

General Information			
UL YellowCard	E118289-220110		
Additive	Mold Release		
Features	Food Contact Acceptable		
	Good Chemical Resistance		
	Good Processability		
	High Flow		
	Medium Clarity		
Uses	Cosmetic Packaging		
	Packaging		
	Personal Care		
	Thin-walled Parts		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	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)	107		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 23°C	50.0	MPa	
Break, 23°C	43.0	MPa	
Tensile Elongation			ASTM D638
Yield, 23°C	5.0	%	
Break, 23°C	270	%	
Flexural Modulus (23°C)	1900	MPa	ASTM D790

Flexural Strength (Yield, 23°C)	68.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	44	J/m	
23°C	80	J/m	
Unnotched Izod Impact			ASTM D4218
-40°C	No Break		
23°C	No Break		
Instrumented Dart Impact			ASTM D3763
-40°C, Energy at Peak Load	38.0	J	
23°C, Energy at Peak Load	40.0	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	73.0	°C	
1.8 MPa, Unannealed	66.0	°C	
Vicat Softening Temperature	86.0	°C	ASTM D1525 <sup>1</sup>
Optical	Nominal Value	Unit	Test Method
Transmittance (Total)	92.0	%	ASTM D1003
Haze	< 1.0	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	70.0	°C	
Drying Time	4.0	hr	
Processing (Melt) Temp	230 to 280	°C	
Mold Temperature	15.0 to 30.0	°C	
NOTE			

1. Loading 1 (10 N)

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