

Eastar™ DN114, Natural

Copolyester
Eastman Chemical Company

Message:

Eastar™ copolyesters are brilliantly clear polymers that have excellent impact strength, chemical resistance, dimensional stability, and low shrinkage. DN114 contains an ultraviolet light inhibitor and a mold release.

This product has been GREENGUARD INDOOR AIR QUALITY CERTIFIED®.

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General Information			
Additive	Mold Release		
	UV Stabilizer		
Features	Good Chemical Resistance		
	Good Dimensional Stability		
	Good Mold Release		
	Good UV Resistance		
	High Clarity		
	High Impact Resistance		
	Low Shrinkage		
Uses	Lighting Fixtures		
Appearance	Clear/Transparent		
	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.20 to 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	106		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 23°C	52.0	MPa	
Break, 23°C	45.0	MPa	
Tensile Elongation			ASTM D638
Yield, 23°C	5.0	%	

Break, 23°C	330	%	
Flexural Modulus (23°C)	1800	MPa	ASTM D790
Flexural Strength (23°C)	66.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	No Break		ASTM D256
Unnotched Izod Impact (23°C)	No Break		ASTM D4218
Instrumented Dart Impact (23°C, 3.20 mm, Energy @ Max. Load)	45.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	72.0	°C	
1.8 MPa, Unannealed	64.0	°C	
Optical	Nominal Value	Unit	Test Method
Transmittance (Total)	91.0	%	ASTM D1003
Haze	0.40	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	71.0	°C	
Drying Time	6.0	hr	
Processing (Melt) Temp	249 to 271	°C	
Mold Temperature	16.0 to 38.0	°C	

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Recommended distributors for this material

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