

Drystar™ 0831

Copolyester

Eastman Chemical Company

Message:

Drystar™ 0831 Copolyester is a high flow product and contains a mold release. Other outstanding features of Drystar™ 0831 are easily maintained such as excellent appearance and clarity, good physical properties, chemical resistance, and easy processing. Drystar™ 0831 is for sale only in Asia as a high-flow formulation.

General Information			
Additive	Mold Release		
Features	Good Chemical Resistance		
	Good Processability		
	High Clarity		
	High Flow		
Uses	Appliances		
	Electrical/Electronic Applications		
	Personal Care		
	Stationary Supplies		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	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)	107		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 23°C	48.0	MPa	
Break, 23°C	24.0	MPa	
Tensile Elongation			ASTM D638
Yield, 23°C	4.0	%	
Break, 23°C	75	%	
Flexural Modulus (23°C)	1900	MPa	ASTM D790
Flexural Strength (23°C)	66.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	46	J/m	
23°C	84	J/m	
Unnotched Izod Impact			ASTM D256
-40°C	No Break		

23°C	No Break		
Instrumented Dart Impact			ASTM D3763
-40°C, Energy at Peak Load	44.0	J	
23°C, Energy at Peak Load	35.0	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	68.0	°C	
1.8 MPa, Unannealed	60.0	°C	
Optical	Nominal Value	Unit	Test Method
Transmittance	91.0	%	ASTM D1003
Haze	0.40	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	81.0	°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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