

DuraStar™ DS3010HF

Copolyester
Eastman Chemical Company

Message:

DuraStar™ DS3010HF copolyester is a high flow product that contains a mold release. Its most outstanding features are excellent color and clarity and the ability to process at lower melt temperatures than typical copolyesters. Other outstanding features of DS3010HF are excellent chemical resistance, high gloss, and improvements in processing such as faster drying times, faster cycle times, and lower scrap rates.

General Information			
Additive	Mold Release		
Features	Fast Molding Cycle		
	Good Chemical Resistance		
	Good Colorability		
	Good Impact Resistance		
	Good Stiffness		
	Good Toughness		
	High Clarity		
	High Flow		
	High Gloss		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 23°C	50.0	MPa	
Break, 23°C	35.0	MPa	
Tensile Elongation			ASTM D638
Yield, 23°C	4.5	%	
Break, 23°C	190	%	
Flexural Modulus (23°C)	1800	MPa	ASTM D790
Flexural Strength (23°C)	67.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	38	J/m	
23°C	70	J/m	
Unnotched Izod Impact			ASTM D4812
-40°C	No Break		
23°C	No Break		

Instrumented Dart Impact (23°C)	40.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	71.0	°C	
1.8 MPa, Unannealed	63.0	°C	
Optical	Nominal Value	Unit	Test Method
Transmittance (Total)	90.0	%	ASTM D1003
Haze	< 0.60	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	60.0	°C	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	225 to 245	°C	
Mold Temperature	16.0 to 50.0	°C	

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