

Eastman™ GSP01

Copolyester
Eastman Chemical Company

Message:

GSP01 is a clear, amorphous material. Because of its clarity, toughness and good melt strength at processing temperatures, it is useful in a variety of processing techniques including film and sheet extrusion. GSP01 may be colored using color concentrates, dry colors or liquid colorants.

General Information			
Features	Amorphous		
	Good Colorability		
	Good Melt Strength		
	Good Toughness		
	High Clarity		
Uses	Packaging		
	Support Trays		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Film Extrusion		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.27	g/cm ³	ASTM D1505
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	250	µm	ASTM D882
Secant Modulus			
MD : 250 µm	1900	MPa	
TD : 250 µm	1900	MPa	ASTM D882
Tensile Strength			
MD : Yield,250 µm	52.0	MPa	
TD : Yield,250 µm	52.0	MPa	ASTM D882
MD : Break, 250 µm	59.0	MPa	
TD : Break, 250 µm	55.0	MPa	
Tensile Elongation			ASTM D882
MD : Yield, 250 µm	4.0	%	
TD : Yield, 250 µm	4.0	%	
MD : Break, 250 µm	400	%	ASTM D1709A
TD : Break, 250 µm	400	%	
Dart Drop Impact ¹			

-18°C, 250 µm	500	g	
23°C, 250 µm	400	g	
Elmendorf Tear Strength			ASTM D1922
MD : 250 µm	1400	g	
TD : 250 µm	1700	g	
Oxygen Permeability (23°C, 250 µm, 50% RH)	10	cm ³ ·mm/m ² /atm/24 hr	ASTM D3985
Water Vapor Transmission Rate (38°C, 100% RH, 250 µm)	7.0	g/m ² /24 hr	ASTM F372
Carbon Dioxide Permeability ² (23°C, 250.0 µm)	49	cm ³ ·mm/m ² /atm/24 hr	ASTM D1434
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	37	J/m	
23°C	100	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	70.0	°C	
1.8 MPa, Unannealed	64.0	°C	
Glass Transition Temperature	80.0	°C	DSC
Vicat Softening Temperature	85.0	°C	ASTM D1525
CLTE - Flow (-30 to 40°C)	5.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity (23°C)	0.21	W/m/K	ASTM C177
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength ³ (23°C)	16	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
23°C, 1 kHz	2.60		
23°C, 1 MHz	2.40		
Dissipation Factor			ASTM D150
23°C, 1 kHz	5.0E-3		
23°C, 1 MHz	0.020		
Arc Resistance	158	sec	ASTM D495
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 250 µm)	108		ASTM D2457
Transmittance			ASTM D1003
Regular, 250 µm	89.0	%	
Total, 250 µm	91.0	%	
Clarity (250 µm)	85.0		ASTM D1746
Haze (250 µm)	0.80	%	ASTM D1003
NOTE			
1.	12.7 mm dia. head, 127 mm dia. clamp, 600 mm drop		
2.	50% RH		

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