

SKYGREEN® PN200

Polyethylene Terephthalate Glycol Comonomer

SK Chemicals

Message:

SKYGREEN® PN200 is a Polyethylene Terephthalate Glycol Comonomer (PETG) material. It is available in Asia Pacific, Europe, or North America for injection molding. Primary attribute of SKYGREEN® PN200: Flame Rated.
Typical application of SKYGREEN® PN200: Medical/Healthcare

General Information			
UL YellowCard	E215991-100848284		
Uses	Medical/Healthcare Applications		
Forms	Pellets		
Processing Method	Injection Molding		
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
Water Absorption (24 hr)	0.13	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	50.0	MPa	ASTM D638
Yield	50.0	MPa	ISO 527-2/50
Break ²	26.0	MPa	ASTM D638
Break	26.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield ³	4.5	%	ASTM D638
Yield	4.5	%	ISO 527-2/50
Break ⁴	120	%	ASTM D638
Break	120	%	ISO 527-2/50
Flexural Modulus ⁵			
--	2150	MPa	ASTM D790
--	2050	MPa	ISO 178
Flexural Strength ⁶			
--	71.0	MPa	ASTM D790
--	69.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	85	J/m	ASTM D256
23°C	7.9	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	70.0	°C	
1.8 MPa, Unannealed	62.0	°C	
Flammability	Nominal Value		Test Method
Flame Rating (3.20 mm)	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Transmittance	90.0	%	ASTM D1003
Haze	< 1.0	%	ASTM D1003
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	50 mm/min		
5.	1.3 mm/min		
6.	1.3 mm/min		

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