

TECHNYL STAR™ A 205 F NATURAL S

Polyamide 66
Solvay Engineering Plastics

Message:

TECHNYLSTAR A205 F NATURAL S is a polyamide 6.6 with low viscosity for fast cycle moulding.

General Information				
Features		Fast Molding Cycle		
		High Flow		
		Low Viscosity		
Appearance		Natural Color		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.15	--	g/cm ³	ASTM D792
Water Absorption (Equilibrium, 23°C, 50% RH)	1.5	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3300	2270	MPa	ISO 527-2
Tensile Stress (23°C)	80.0	79.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	32	--	%	ISO 527-2
Flexural Modulus (23°C)	3070	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.4	6.6	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break	--		ISO 179
Notched Izod Impact Strength (23°C)	3.5	--	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	153	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	69.0	--	°C	ISO 75-2/A
Peak Melting Temperature	262	--	°C	ASTM D3418
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity (23°C)	1.0E+15	1.0E+14	ohms · cm	IEC 60093
Electric Strength (23°C)	27	26	kV/mm	IEC 60243-1
Relative Permittivity (23°C, 1 MHz)	2.90	3.20		IEC 60250
Dissipation Factor (23°C, 1 MHz)	0.030	0.080		IEC 60250

Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	V-2	--		UL 94
Glow Wire Flammability Index (1.60 mm)	960	--	°C	IEC 60695-2-12
Injection	Dry	Unit		
Rear Temperature	265 to 275		°C	
Middle Temperature	270 to 285		°C	
Front Temperature	270 to 285		°C	
Nozzle Temperature	280 to 290		°C	
Mold Temperature	60.0 to 80.0		°C	

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