

Strator® TA-X5

Polyphthalamide

EPIC Polymers

Message:

STRATOR® TA-X5 is a Polyphthalamide (PPA) product filled with long glass fiber. It is available in Europe.

General Information				
Filler / Reinforcement		Long Glass Fiber		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.61	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.25	--	%	ISO 294-4
Water Absorption (Equilibrium, 23°C, 50% RH)	0.80	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus				ISO 527-2
23°C	18700	18300	MPa	
90°C	18000	16000	MPa	
120°C	14800	--	MPa	
Tensile Stress				ISO 527-2
Yield, 23°C	295	280	MPa	
Yield, 90°C	270	220	MPa	
Yield, 120°C	200	--	MPa	
Tensile Strain (Break, 23°C)	2.0	2.0	%	ISO 527-2
Flexural Modulus (23°C)	17500	17100	MPa	ISO 178
Flexural Stress (23°C)	440	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	--	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	85	--	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	300	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	285	--	°C	ISO 75-2/A
CLTE - Flow (23°C)	2.0E-5	--	cm/cm/°C	ISO 7991
Thermal Conductivity	0.35	--	W/m/K	ISO 22007
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	--	ohms	ASTM D257
Electric Strength	35	--	kV/mm	IEC 60243-1

Comparative Tracking Index	600	--	V	IEC 60112
Extrusion	Dry	Unit		
Cylinder Zone 1 Temp.	320 to 340		°C	
Cylinder Zone 2 Temp.	320 to 335		°C	
Cylinder Zone 3 Temp.	320 to 335		°C	
Cylinder Zone 4 Temp.	325 to 340		°C	

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