

Jamplast JPQ

Syndiotactic Polystyrene

Jamplast, Inc.

Message:

JPQ is the commercial name for a semi-crystalline thermoplastic polymer product line based on syndiotactic polystyrene. The syndiotactic polymer structure has a crystalline melting point of 270°C and significantly improved chemical resistance (1) compared to conventional styrenics. JPQ also has excellent electrical properties, moisture resistance and processability. JPQ is processed by molding or extrusion and is being used in electrical, electronic, automotive and consumer and industrial applications.

JPQ is a 40% glass filled, ignition resistant polymer used in electrical and electronic applications.

(1) NOTICE: Wall thickness, part design complexity, fabrication techniques, polymer flow length, molecular orientation, temperature and other conditions can affect part performance greatly. For accurate prediction of performance, fabricated parts should be exposed to the reagents at the concentrations and under the conditions expected to be encountered in the actual end use environment.

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Additive	Flame Retardant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.47	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.10 to 0.20	%	ASTM D955
Water Absorption (24 hr)	0.010	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	10300	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	122	MPa	
Break	122	MPa	
Tensile Elongation (Break)	1.8	%	ASTM D638
Flexural Modulus	12800	MPa	ASTM D790
Flexural Strength (Yield)	188	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-18°C, 3.18 mm	91	J/m	
23°C, 3.18 mm	91	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	263	°C	
1.8 MPa, Unannealed	241	°C	
Vicat Softening Temperature	263	°C	ASTM D1525
CLTE - Flow	2.5E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength	24	kV/mm	ASTM D149

Dielectric Constant	3.10		ASTM D150
Dissipation Factor	1.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm)	V-0		UL 94

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