TECHNYL® 2411GF6 BLACK

Polyamide 66

Solvay Engineering Plastics

Message:

Polyamide 66, 30% glass fiber reinforced, for injection molding

General Information	
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Features	Good Thermal Stability
Uses	Automotive Applications Electrical/Electronic Applications Gears Housings Reflectors Sporting Goods
Appearance	Black
Processing Method	Injection Molding
Part Marking Code (ISO 11469)	>PA66-GF30<

Physical	Dry	Conditioned	Unit	Test Method
Density	1.38	--	g/cm³	ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.80	--	%	
Flow	0.50	--	%	
Water Absorption (23°C, 24 hr)	0.80	--	%	ISO 62
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	121	--		ASTM D785
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Strength (Yield)	1950	--	MPa	ASTM D638
Tensile Elongation (Break)	2.0	--	%	ASTM D638
Flexural Modulus	9100	--	MPa	ASTM D790
Flexural Strength (Break)	270	--	MPa	ASTM D790
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Notched Izod Impact	120	--	J/m	ASTM D256
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	255	--	°C	ASTM D648
Melting Temperature	262	--	°C	ISO 11357-3

CLTE - Flow (23 to 85°C)	2.5E-5	--	cm/cm/°C	ASTM D696
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	6.0E+14	1.0E+12	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Electric Strength	0.010	0.11	kV/mm	IEC 60243-1
Relative Permittivity	40.0	30.0		IEC 60250
Dissipation Factor	3.8	4.0		IEC 60250
Comparative Tracking Index				IEC 60112
Solution A	600	600	V	
Solution B	500	500	V	
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flame Rating (1.60 to 3.20 mm)	HB	--		UL 94
Glow Wire Flammability Index (0.800 mm)	650	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.60 mm)	650	--	°C	IEC 60695-2-13
Oxygen Index	23	--	%	ISO 4589-2
Fire and Smoke F Index - I2, F3	2	--		NF F16-101
Injection	**Dry**	**Unit**		
Drying Temperature	80.0		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	270 to 275		°C	
Middle Temperature	275 to 285		°C	
Front Temperature	285 to 295		°C	
Mold Temperature	80.0 to 100		°C	

Recommended distributors for this material

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