TECHNYL® 1021GF6 BLACK 0179

Polyamide 6

Solvay Engineering Plastics

Message:

TECHNYL 1021GF6 Black 0179 is a polyamide 6, 30% glass fiber reinforced, for injection molding. This product is available in black color.

General Information				
Filler / Reinforcement	Glass Fiber,30% Filler by Weight			
Agency Ratings	UU 453/2010/EC			
RoHS Compliance	RoHS Compliant			
Appearance	Black			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.36	--	g/cm³	ISO 1183/A
Molding Shrinkage				Internal Method
Across Flow	0.65	--	%	
Flow	0.35	--	%	
Water Absorption (23°C, 24 hr)	0.95	--	%	ISO 62
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	121	--		ASTM D785
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Strength (Yield)	175	--	MPa	ASTM D638
Tensile Elongation (Break)	3.5	--	%	ASTM D638
Flexural Modulus	8900	--	MPa	ASTM D790
Flexural Strength	260	--	MPa	ASTM D790
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Notched Izod Impact	130	--	J/m	ASTM D256
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	210	--	°C	ASTM D648
Melting Temperature	222	--	°C	ISO 11357-3
CLTE - Flow (23 to 85°C)	3.2E-5	--	cm/cm/°C	ISO 11359-2
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	1.0E+13	1.0E+11	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+11	ohms·cm	IEC 60093
Electric Strength	--	22	kV/mm	IEC 60243-1
Dissipation Factor	0.020	0.090		IEC 60250
Comparative Tracking Index (Solution A)	550	475	V	IEC 60112

Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	HB	--		UL 94
Glow Wire Flammability Index (1.60 mm)	650	--	°C	IEC 60695-2-12

Injection	Dry	Unit
Drying Temperature	80.0	°C
Suggested Max Moisture	0.20	%
Rear Temperature	230 to 235	°C
Middle Temperature	235 to 245	°C
Front Temperature	245 to 250	°C
Mold Temperature	80.0 to 100	°C

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