TECHNYL eXten® D 219WFC V30 BLACK

Polyamide 610

Solvay Engineering Plastics

Message:

TECHNYL eXten® D 219WFC V30 Black is a polyamide 6.10, reinforced with 30% of glass fibre, heat stabilized with organic stabilizers, for injection moulding. This grade offers lower water uptake, higher dimensional stability and enhanced chlorine resistance versus standard PA 6.6. It offers too an enhanced corrosion resistance, a reduction in lead levels versus standard metal solutions and an increase in ease of processing and part design freedom versus metal solutions and other plastics. It is used for cold and warm water plumbing components including, but not limited to, components in contact with drinking water systems globally where elevated levels of chlorine could be present.

General Information					
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight				
Additive	heat stabilizer				
Features	Drinking Water Contact Ad	cceptable			
	Heat Stabilized - Organic				
	Good dimensional stability				
	Updatable resources				
	Good chemical resistance				
	Compliance of Food Expos	sure			
Uses	Pump parts				
	Valve/valve components				
	Industrial application				
	Consumer goods applicati	on field			
Agency Ratings	ACS DGSNS4 No. 2000/23	2			
	DVGW W270				
	EC 1907/2006 (REACH)				
	KTW Guidelines				
	NSF 61				
	NSF Not Rated				
	WRAS BS6920-1: 2000 and	I 2014			
RoHS Compliance	RoHS compliance				
Appearance	Black				
Forms	Particle				
Processing Method	Injection molding				
Resin ID (ISO 1043)	PA610-GF30				
Physical	Nominal Value	Unit	Test Method		
Density	1.31	g/cm³	ISO 1183/A		
Water Absorption			ISO 62		

23°C, 24 hr	0.36	%	ISO 62
Saturated, 23°C	2.4	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	9200	MPa	ISO 527-2/1A
Tensile Stress (Break, 23°C)	150	MPa	ISO 527-2/1A
Tensile Strain (Break, 23°C)	4.1	%	ISO 527-2
Flexural Modulus			
23°C	7200	MPa	ASTM D790
23°C	7700	MPa	ISO 178
Flexural Strength			
23°C	235	MPa	ASTM D790
23°C	250	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	kJ/m²	ISO 179/1eA
Notched Izod Impact (23°C)	12	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	203	°С	ISO 75-2/Af
Melting Temperature	225	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.9E+15	ohms	IEC 60093
Volume Resistivity	3.9E+15	ohms·cm	IEC 60093
Dielectric Strength (2.00 mm)	27	kV/mm	IEC 60243-1
Relative Permittivity	3.40		IEC 60250
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.6 mm	НВ		UL 94
3.2 mm	НВ		UL 94
Glow Wire Flammability Index (1.6 mm)	700	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	80	°C	
Suggested Max Moisture	0.20	%	
Rear Temperature	265 - 275	°C	
	270 - 280	°C	
Middle Temperature	270 - 200		
Middle Temperature Front Temperature	275 - 285	°C	

The material is supplied in airtight bags, ready for use. In case that the virgin material has absorbed moisture, it must be dried with a dehumidified air drying equipment, dew point mini -20°C. Recommended time 2-4hInjection Advice:

For reinforced polyamide, Solvay recommends the use of steel with a high content of Carbon and purified for polishing to avoid or limit the abrasion. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (DIN Norm) or X160CrMoV12 (EN Norm) - 1.2601 /1.2379 (DIN Norm). For Mould Temperature, in the case of parts where the surface roughness is required we can recommend a temperature of 90°C to 120°C with an optimum at 105°C. The processing parameters like processing temperatures are a recommendation and can be adjusted in function of injection machine size, part geometry / design

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