TECHNYL® ALLOY KC 226 NATURAL

Polyamide 6 + ABS

Solvay Engineering Plastics

Message:

TECHNYL® ALLOY KC 226 Natural is an unfilled grade based on blend of polyamide 6 and acrylonitrile butadiene styrene (PA6 + ABS), for injection moulding. This grade offers high mechanical properties, good dimensional stability and good processability. It is a synergistic blend material between Polyamide 6 and ABS with an ideal property combination, meaning that it has dual characteristics between semi-crystalline and amorphous polymers.

General Information				
Features	Good dimensional stability Fast molding cycle			
Uses	Electrical/Electronic Applications Application in Automobile Field			
Agency Ratings	EC 1907/2006 (REACH)			
RoHS Compliance	RoHS compliance			
Appearance	Natural color			
Forms	Particle			
Processing Method	Injection molding			
Resin ID (ISO 1043)	PA6+ABS			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.12	--	g/cm³	ISO 1183/A
Water Absorption (23°C, 24 hr)	0.90	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	3000	1400	MPa	ISO 527-2/1A
Tensile Stress (Break, 23°C)	65.0	42.0	MPa	ISO 527-2/1A
Tensile Strain (Break, 23°C)	20	--	%	ISO 527-2
Flexural Modulus (23°C)	2900	1350	MPa	ISO 178
Flexural Stress (23°C)	100	55.0	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	6.0	16	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	--		ISO 179/1eU
Notched Izod Impact (23°C)	6.0	20	kJ/m²	ISO 180
Unnotched Izod Impact Strength (23°C)	No Break	--		ISO 180/1U
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				

0.45 MPa, not annealed	115	--	°C	ISO 75-2/Bf
1.8 MPa, not annealed	75.0	--	°C	ISO 75-2/Af
Melting Temperature	220	--	°C	ISO 11357-3
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.6 mm)	HB	--		UL 94
Glow Wire Flammability Index (1.6 mm)	750	--	°C	IEC 60695-2-12
Injection	Dry	Unit		
Drying Temperature	80		°C	
Suggested Max Moisture	0.20		%	
Rear Temperature	235 - 240		°C	
Middle Temperature	240 - 250		°C	
Front Temperature	250 - 260		°C	
Mold Temperature	60 - 90		°C	

Injection instructions

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 unfilled polyamide, Solvay recommends the use of high alloy steel with a weak chromium content. For example: X38CrMoV5-1 (EN Norm) - 1.2367 /1.2343 (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

Recommended distributors for this material

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