Radilon® A CF300K 333 NER

Polyamide 66

Radici Plastics

Message:

PA66 30% carbon fiber reinforced injection moulding grade. Heat stabilized. Black colour.
Suitable for parts and components requiring very high mechanical properties: stiffness, dimensional stability, fatigue and creep resistance.
The presence of carbon fibers also provides higher electrical and thermal conductivity.
ISO 1043 : PA66-T CF30

General Information	
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight
Additive	Heat Stabilizer
Features	Conductive Fatigue Resistant Good Creep Resistance Good Dimensional Stability Heat Stabilized High Stiffness
RoHS Compliance	RoHS Compliant
Appearance	Black
Processing Method	Injection Molding
Resin ID (ISO 1043)	PA66-T CF30

Physical	Dry	Conditioned	Unit	Test Method
Density	1.27	--	g/cm³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	6.0	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.7	--	%	

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	23000	14500	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	255	160	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.1	2.5	%	ISO 527-2/1A/5
Flexural Modulus [1]	19900	--	MPa	ISO 178
Flexural Stress [2]	370	--	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	--	kJ/m²	
23°C	7.0	9.0	kJ/m²	

Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	--	kJ/m²	
23°C	70	85	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, Unannealed	250	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	235	--	°C	ISO 75-2/Af
Vicat Softening Temperature	240	--	°C	ISO 306/B50
Melting Temperature [3]	260	--	°C	ISO 11357
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	1.0E+3	1.0E+3	ohms	IEC 60093
Volume Resistivity	1.0E+4	1.0E+4	ohms·cm	IEC 60093
Comparative Tracking Index	150	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Burning Rate	< 10	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB	--		UL 94
Glow Wire Flammability Index (2.00 mm)	700	--	°C	IEC 60695-2-12
Injection	**Dry**	**Unit**		
Drying Temperature - Desiccant Dryer	80.0		°C	
Drying Time - Desiccant Dryer	2.0 to 4.0		hr	
Dew Point - Desiccant Dryer	< -20.0		°C	
Suggested Max Moisture	0.15		%	
Processing (Melt) Temp	280 to 300		°C	
Mold Temperature	80.0 to 100		°C	
Injection Rate	Moderate			
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10°C/min			

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