Radilon® CA RV300L 333 BK

Radici Group High Performance Polymers - *Polyamide 66/6 Copolymer*

General Information

Product Description

PA66/6 copolymer injection moulding grade, 30% glass Fiber reinforced. Black colour.

Suitable for parts requiring high stiffness and good mechanical resistance. Good surface aspect and easier flow.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Features	• Copolymer • Good Flow	• Good Surface Finish • High Stiffness	
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66/6-GF30		

Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.27	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.20	--	%	
Water Absorption (Saturation, 73°F, 0.0787 in)	7.0	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 0.0787 in, 50% RH)	1.7	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.42E+6	--	psi	ISO 527-1/1A/1
Tensile Stress (Break)	23900	--	psi	ISO 527-2/1A/5
Tensile Strain (Break)	3.3	--	%	ISO 527-2/1A/5
Flexural Modulus [2]	1.23E+6	--	psi	ISO 178
Flexural Stress [2]	35500	--	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	3.8	--	ft·lb/in²	
73°F	4.8	--	ft·lb/in²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F	33	--	ft·lb/in²	
73°F	36	--	ft·lb/in²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	455	--	°F	ISO 75-2/Bf
Deflection Temperature Under Load (264 psi, Unannealed)	419	--	°F	ISO 75-2/Af
Vicat Softening Temperature	437	--	°F	ISO 306/B50
Melting Temperature [3]	473	--	°F	ISO 11357-3
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity (500 V)	1.0E+12	1.0E+10	ohms	IEC 62631-3-2
Volume Resistivity (500 V)	1.0E+13	1.0E+11	ohms·m	IEC 62631-3-1
Comparative Tracking Index (Solution A)	500	--	V	IEC 60112

Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.118 in)	0.0	--	in/min	ISO 3795
Flame Rating (0.031 in)	HB	--		UL 94
Glow Wire Flammability Index (0.08 in)	1290	--	°F	IEC 60695-2-12

Processing Information

Injection	Dry	Unit
Drying Temperature - Desiccant Dryer	176	°F
Drying Time - Desiccant Dryer	2.0 to 4.0	hr
Dew Point - Desiccant Dryer	< -4	°F
Suggested Max Moisture	0.15	%
Processing (Melt) Temp	518 to 554	°F
Mold Temperature	176 to 194	°F
Injection Rate	Moderate-Fast	

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 0.079 in/min

[3] 10°C/min