Radilon® DT RV330K 1700 NT

Radici Group High Performance Polymers - *Polyamide 612*

General Information

Product Description

PA612 33% glass fibre reinforced injection moulding grade. Natural colour.

Suitable for parts requiring high stiffness and good mechanical properties.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 33% Filler by Weight		
Features	• High Stiffness		
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA612-GF33		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm³	ISO 1183
Water Absorption (Saturation, 73°F, 0.0787 in)	2.0	%	ISO 62
Water Absorption (Equilibrium, 73°F, 0.0787 in, 50% RH)	0.80	%	ISO 62
Viscosity Number (H2SO4 (Sulphuric Acid))	138	cm³/g	ISO 307
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1.28E+6	psi	ISO 527-1/1A/1
Tensile Stress (Break)	21800	psi	ISO 527-2/1A/5
Tensile Strain (Break)	3.9	%	ISO 527-2/1A/5
Flexural Modulus [2]	1.13E+6	psi	ISO 178
Flexural Stress [2]	35200	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	5.7	ft·lb/in²	
73°F	6.7	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	39	ft·lb/in²	
73°F	41	ft·lb/in²	
Notched Izod Impact Strength (73°F)	8.1	ft·lb/in²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	410	°F	ISO 75-2/Bf
Deflection Temperature Under Load (264 psi, Unannealed)	401	°F	ISO 75-2/Af
Melting Temperature [3]	424	°F	ISO 11357-3

Processing Information

Injection	Nominal Value	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	0.10	%
Processing (Melt) Temp	500 to 554	°F

Mold Temperature	176 to 194 °F
Injection Rate	Moderate

Notes

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

[2] 0.079 in/min

[3] 10°C/min