

Radilon® DT RV450USR 333 BK

Radici Group High Performance Polymers - Polyamide 612

General Information

Product Description

PA612, 45% glass fiber reinforced injection moulding grade. Improved resistance to uric acid solutions. Black colour.
Material especially developed for automotive under the hood applications, employed in selective catalytic reductions (SCR) systems.

General

Filler / Reinforcement	• Glass Fiber, 45% Filler by Weight
Features	• Acid Resistant
Uses	• Automotive Under the Hood
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA612-GF45

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.45	--	g/cm ³	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.91E+6	--	psi	ISO 527-1/1A/1
Tensile Stress (Break)	26800	--	psi	ISO 527-2/1A/5
Tensile Strain (Break)	3.8	--	%	ISO 527-2/1A/5
Flexural Modulus ²	1.62E+6	--	psi	ISO 178
Flexural Stress ²	40600	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength 73°F	7.6	--	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F	43	--	ft·lb/in ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ³	417	--	°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

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	0.10 %
Processing (Melt) Temp	500 to 554 °F
Mold Temperature	176 to 194 °F
Injection	Dry Unit
Injection Rate	Moderate