

# Radilon® S RCW4015UW 3726 BK

## Radici Group High Performance Polymers - Polyamide 6

### General Information

#### Product Description

PA6 40% combination of glass fibre and specialty minerals, improved heat and UV, easy flow, injection moulding grade. Ebony Black Colour

Suitable for parts requiring; good dimensional stability, low warp after exposure to repeated high temperature cycle, and resistant to outdoor UV exposure.

#### General

Filler / Reinforcement	• Glass Fiber/Mineral, 40% Filler by Weight		
Additive	• Heat Stabilizer	• UV Stabilizer	
Features	• Good Dimensional Stability • Good Flow	• Heat Stabilized • Low Warp	• UV Stabilized
Uses	• Automotive Applications		
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA6-T (GF+MD)40		

### Properties<sup>1</sup>

Physical	Dry	Conditioned	Unit	Test Method
Density	1.49	--	g/cm <sup>3</sup>	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.33E+6	--	psi	ISO 527-1/1A/1
Tensile Stress (Break)	18100	--	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.7	--	%	ISO 527-2/1A/5
Flexural Modulus <sup>2</sup>	1.20E+6	--	psi	ISO 178
Flexural Stress <sup>2</sup>	28900	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength 73°F	2.3	--	ft·lb/in <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F	20	--	ft·lb/in <sup>2</sup>	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed	365	--	°F	ISO 75-2/Af
Melting Temperature <sup>3</sup>	428	--	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity <sup>4</sup>	1.0E+12	1.0E+10	ohms	IEC 62631-3-2
Volume Resistivity <sup>4</sup>	1.0E+15	1.0E+13	ohms·cm	IEC 62631-3-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.118 in)	< 3.9	--	in/min	ISO 3795
Flame Rating (0.031 in)	HB	--		UL 94

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**Processing Information**

<b>Injection</b>	<b>Dry</b>	<b>Unit</b>
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	464 to 536	°F
Mold Temperature	140 to 194	°F
Injection Rate	Moderate-Fast	

**Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 0.079 in/min

<sup>3</sup> 10°C/min

<sup>4</sup> 500V