

Radilon® S RCW4015UW 1700 NT

Radici Group High Performance Polymers - Polyamide 6

General Information

Product Description

Polyamide 6 compound reinforced with 40% of a combination of glass fibre and specialty minerals, heat stabilized, UV stabilized, and lubricated, injection moulding grade.

Suitable for parts requiring rigidity, dimensional control, and low warp after repeated high temperature exposure.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.48	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.19E+6	psi	ISO 527-1/1A/1
Tensile Stress (Break)	17500	psi	ISO 527-2/1A/5
Tensile Strain (Break)	3.1	%	ISO 527-2/1A/5
Flexural Modulus ²	1.10E+6	psi	ISO 178
Flexural Stress ²	27400	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.6	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	26	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Melting Temperature ³	428	°F	ISO 11357-3
Flammability	Nominal Value	Unit	Test Method
Burning Rate (0.118 in)	0.0	in/min	ISO 3795

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	464 to 536	°F
Mold Temperature	140 to 194	°F
Injection Rate	Moderate-Fast	