

Radilon® S ERV330TUK 3726 BK

Radici Group High Performance Polymers - Polyamide 6

General Information

Product Description

PA6 33% glass fibre, injection moulding grade, impact modified, heat and UV stabilized, Ebony matched Black colour.

Suitable for parts requiring improved impact strength along with enhanced stiffness, in addition to good thermal and UV resistance.

General

Filler / Reinforcement	• Glass Fiber, 33% Filler by Weight		
Additive	• Heat Stabilizer	• Impact Modifier	• UV Stabilizer
Features	• Good Impact Resistance • Good Stiffness	• Good Thermal Stability • Heat Stabilized	• Impact Modified • 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-TI-GF33		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm ³	ISO 1183
Viscosity Index - Sulfuric Acid	3880	in ² /lb	ISO 307
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.29E+6	psi	ISO 527-1/1A/1
Tensile Stress (Break)	17400	psi	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	%	ISO 527-2/1A/5
Flexural Modulus ²	1.20E+6	psi	ISO 178
Flexural Stress ²	29000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	7.1	ft·lb/in ²	
73°F	8.6	ft·lb/in ²	
Charpy Unnotched Impact Strength (73°F)	36	ft·lb/in ²	ISO 179/1eU
Notched Izod Impact Strength (73°F)	7.1	ft·lb/in ²	ISO 180/1A
Unnotched Izod Impact Strength (73°F)	24	ft·lb/in ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/Af
264 psi, Unannealed	405	°F	
Melting Temperature ³	428	°F	ISO 11357-3

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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	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