

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

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 33% Filler by Weight
Additive	• Heat Stabilizer • Impact Modifier • UV Stabilizer
Features	• Good Impact Resistance • Good Thermal Stability • Impact Modified • Good Stiffness • Heat Stabilized • UV Stabilized
Uses	• Automotive Applications
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Automotive Specifications	• STELLANTIS MS-DB-41 CPN3812
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 ³ /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 (264 psi, Unannealed)	405	°F	ISO 75-2/Af
Melting Temperature ³	428	°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	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

