

Radilon® S BMV120W 3733 BK

 Radici Group High Performance Polymers - *Polyamide 6*
General Information
Product Description

PA6 12% glass fibre reinforced, extrusion, blow and injection moulding grade. Heat stabilized. Black colour.

Suitable for blow-moulding of tubes and containers.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 12% Filler by Weight		
Additive	• Heat Stabilizer		
Features	• Heat Stabilized		
Uses	• Automotive Applications	• Containers	• Tubing
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Automotive Specifications	• STELLANTIS MS-DB-41 CPN5050		
Appearance	• Black		
Processing Method	• Blow Molding	• Extrusion	• Injection Molding
Resin ID (ISO 1043)	• PA6-T GF12		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.22	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	856000	psi	ISO 527-1/1A/1
Tensile Stress (Break)	16000	psi	ISO 527-2/1A/5
Tensile Strain (Break)	4.0	%	ISO 527-2/1A/5
Flexural Modulus ²	696000	psi	ISO 178
Flexural Stress ²	21000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	2.1	ft·lb/in ²	
73°F	2.4	ft·lb/in ²	
Charpy Unnotched Impact Strength (73°F)	23	ft·lb/in ²	ISO 179/1eU
Notched Izod Impact Strength			ISO 180/1A
-22°F	2.0	ft·lb/in ²	
73°F	2.4	ft·lb/in ²	
Unnotched Izod Impact Strength (73°F)	21	ft·lb/in ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	401	°F	ISO 75-2/Bf
Deflection Temperature Under Load (264 psi, Unannealed)	329	°F	ISO 75-2/Af
Melting Temperature ³	500	°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	428 to 500 °F
Mold Temperature	104 to 158 °F
Injection Rate	Moderate
Extrusion	Nominal Value Unit
Melt Temperature	482 to 536 °F

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.079 in/min

³ 10°C/min

