

# Radilon® MIXLOY S RVA80UK 333 BK

## Radici Group High Performance Polymers - Polyamide 6 + ABS

### General Information

#### Product Description

PA6/ABS blend, 8% glass fibre injection moulding grade. UV stabilized. Black colour.

Suitable for parts requiring improved stiffness and low moisture absorbtion. Excellent aesthetic surface aspect, intended to resist to light exposure.

#### General

Filler / Reinforcement	• Glass Fiber, 8.0% Filler by Weight
Additive	• UV Stabilizer
Features	• Good Stiffness • Low Moisture Absorption • Outstanding Surface Finish • UV Stabilized
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Appearance	• Black
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• (PA6+ABS)-GF8

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

Physical	Dry	Conditioned	Unit	Test Method
Density	1.16	--	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)				ISO 1133
260°C/5.0 kg	21	--	g/10 min	
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.40	--	%	
Water Absorption				ISO 62
Saturation, 73°F, 0.0787 in	5.7	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 0.0787 in, 50% RH	1.8	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	609000	377000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	12300	7690	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	4.5	6.5	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	6.5	25	%	ISO 527-2/1A/50
Flexural Modulus <sup>2</sup>	566000	341000	psi	ISO 178
Flexural Stress <sup>2</sup>	20300	12300	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
73°F	2.1	--	ft·lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength				ISO 179/1eU
73°F	21	40	ft·lb/in <sup>2</sup>	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/Af
264 psi, Unannealed	226	--	°F	

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Thermal	Dry	Conditioned	Unit	Test Method
Vicat Softening Temperature	329	--	°F	ISO 306/B50
Melting Temperature <sup>3</sup>	424	--	°F	ISO 11357-3

**Processing Information**

Injection	Dry	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	0.15	%
Processing (Melt) Temp	464 to 500	°F
Mold Temperature	104 to 140	°F
Injection Rate	Moderate	

**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