

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 absorption. Excellent aesthetic surface aspect, intended to resist to light exposure.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
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 ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.16	--	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	21	--	g/10 min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow	0.60	--	%	
Flow	0.40	--	%	
Water Absorption (Saturation, 73°F, 0.0787 in)	5.7	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 0.0787 in, 50% RH)	1.8	--	%	ISO 62
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 ²	566000	341000	psi	ISO 178
Flexural Stress ²	20300	12300	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.1	--	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	21	40	ft·lb/in ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	226	--	°F	ISO 75-2/Af
Vicat Softening Temperature	329	--	°F	ISO 306/B50
Melting Temperature ³	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

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

² 0.079 in/min

³ 10°C/min

