

Radilon® MIXLOY S RVA80 100 NT

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

General Information

Product Description

PA6/ABS blend, 8% glass fibre injection moulding grade. Natural colour.

Suitable for parts requiring improved stiffness and low moisture absorption. Excellent aesthetic surface aspect.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 8.0% Filler by Weight
Features	• Good Stiffness • Low Moisture Absorption • Outstanding Surface Finish
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• (PA610+ABS)-GF8

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.15	--	g/cm ³	ISO 1183
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	595000	377000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	12600	7690	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	4.0	6.5	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	6.5	25	%	ISO 527-2/1A/50
Flexural Modulus ²	544000	341000	psi	ISO 178
Flexural Stress ²	20300	12300	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.6	--	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	26	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	428	--	°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

