

Radilon® MIXLOY S RVA150 100 NT

Radici Group High Performance Polymers - Polyamide 6 + ABS

General Information

Product Description

PA6/ABS blend, 15% glass fibre injection moulding grade. Natural colour.

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

General

Filler / Reinforcement	• Glass Fiber, 15% 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)	• (PA6+ABS)-GF15

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.18	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 73°F, 0.0787 in	5.2	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 0.0787 in, 50% RH	1.6	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	769000	508000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	14500	9720	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	3.5	7.0	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	4.5	11	%	ISO 527-2/1A/50
Flexural Modulus ²	696000	435000	psi	ISO 178
Flexural Stress ²	22500	14500	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	5.2	--	ft·lb/in ²	
73°F	5.5	--	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
73°F	33	38	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
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	%

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Injection	Dry Unit
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