Radilon® MIXLOY D RVA150 100 NT

Radici Group High Performance Polymers - Polyamide 610

General Information

Product Description

PA610/ABS blend, 15% glass fibre injection moulding grade. Partially bio-based. Natural colour.

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

General		
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight	
Features	• Good Stiffness • Low Moisture Absorption	• Outstanding Surface Finish • Renewable Resource Content
Agency Ratings	• EU 2011/65/EC	
RoHS Compliance	• RoHS Compliant	
Appearance	• Natural Color	
Processing Method	• Injection Molding	
Resin ID (ISO 1043)	• (PA610+ABS)-GF15	

Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.15	--	g/cm³	ISO 1183
Water Absorption				ISO 62
Saturation, 73°F, 0.0787 in	2.1	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 0.0787 in, 50% RH	0.80	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	689000	580000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	13100	10600	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	4.0	5.0	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	5.0	7.5	%	ISO 527-2/1A/50
Flexural Modulus [2]	624000	508000	psi	ISO 178
Flexural Stress [2]	20300	16000	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	4.8	--	ft·lb/in²	
73°F	5.2	--	ft·lb/in²	
Charpy Unnotched Impact Strength				ISO 179/1eU
73°F	32	31	ft·lb/in²	
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

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Injection	Dry	Unit
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