

Radilon® A HSX88 100 NT

Radici Group High Performance Polymers - Polyamide 66

General Information

Product Description

PA66 injection moulding grade. Toughened. Natural colour.

Suitable for parts requiring improved impact resistance.

General

Features	• Good Impact Resistance
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA66-I

Properties¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.09	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.4	--	%	
Flow	1.5	--	%	
Water Absorption				ISO 62
Saturation, 73°F, 0.0787 in	7.6	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 0.0787 in, 50% RH	2.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	297000	181000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	7250	6240	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	15	20	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	45	0.0	%	ISO 527-2/1A/50
Flexural Modulus ²	290000	--	psi	ISO 178
Flexural Stress ²	10900	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	6.2	5.2	ft·lb/in ²	
73°F	34	43	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
73°F	No Break	--		
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ³	500	--	°F	ISO 11357-3
Flammability	Dry	Conditioned	Unit	Test Method
Glow Wire Flammability Index				IEC 60695-2-12
0.08 in	1200	--	°F	

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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	518 to 554	°F
Mold Temperature	158 to 194	°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