

Radilon® A USZ200 100 NT

Radici Group High Performance Polymers - *Polyamide 66*

General Information

Product Description

PA66 injection moulding grade. Toughened. Natural colour.

Suitable for parts requiring excellent impact resistance, even at low temperatures, and high flexibility.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Impact Modifier		
Features	• Good Impact Resistance • Good Toughness	• High Flexibility • Impact Modified	• Low Temperature Impact Resistance
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66-HI		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.05	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.7	--	%	
Flow	1.9	--	%	
Water Absorption (Saturation, 73°F, 0.0787 in)	7.0	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 0.0787 in, 50% RH)	1.8	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	225000	123000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	6090	3630	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	15	30	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	> 100	> 100	%	ISO 527-2/1A/50
Flexural Modulus ²	203000	--	psi	ISO 178
Flexural Stress ²	7980	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	38	--	ft·lb/in ²	
73°F	50	59	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	149	--	°F	ISO 75-2/Af
Vicat Softening Temperature	356	--	°F	ISO 306/B50
Melting Temperature ³	500	--	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity (500 V)	1.0E+12	1.0E+10	ohms	IEC 62631-3-2
Volume Resistivity (500 V)	1.0E+13	1.0E+11	ohms·m	IEC 62631-3-1
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.118 in)	< 1.2	--	in/min	ISO 3795
Flame Rating (0.031 in)	HB	--		UL 94



Glow Wire Flammability Index (0.08 in)	1200	--	°F	IEC 60695-2-12
Glow Wire Ignition Temperature (0.08 in)	1250	--	°F	IEC 60695-2-13

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	140 to 176 °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

