

Radilon® A USX200 100 NAT

Polyamide 66

Radici Plastics

Message:

PA66 injection moulding grade. Toughened. Natural colour.

Suitable for parts requiring excellent impact resistance and high flexibility.

ISO 1043 : PA66-HI

General Information				
UL YellowCard		E148796-101473270	E195505-101510675	E337835-101516865
Features	E195508-101520667			
	Good Flexibility			
	Good Toughness			
	High Impact Resistance			
RoHS Compliance		RoHS Compliant		
Appearance		Natural Color		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA66-HI		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.06	--	g/cm ³	ISO 1183
Molding Shrinkage ¹				ISO 294-4
Across Flow	2.1	--	%	
Flow	2.8	--	%	
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	6.3	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.8	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1700	800	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	45.0	35.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	15	30	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	80	> 100	%	ISO 527-2/1A/50
Flexural Modulus ²	1500	600	MPa	ISO 178
Flexural Stress ³	60.0	35.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	25	--	kJ/m ²	
23°C	90	120	kJ/m ²	

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	150	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	55.0	--	°C	ISO 75-2/Af
Vicat Softening Temperature	170	--	°C	ISO 306/B50
Melting Temperature ⁴	260	--	°C	ISO 11357
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	< 30	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB	--		UL 94
Glow Wire Flammability Index (2.00 mm)	650	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (2.00 mm)	675	--	°C	IEC 60695-2-13
Injection	Dry	Unit		
Drying Temperature - Desiccant Dryer	80.0		°C	
Drying Time - Desiccant Dryer	2.0 to 4.0		hr	
Dew Point - Desiccant Dryer	< -20.0		°C	
Suggested Max Moisture	0.15		%	
Processing (Melt) Temp	270 to 290		°C	
Mold Temperature	60.0 to 80.0		°C	
Injection Rate	Moderate			
NOTE				
1.	290°C Melt Temp / 70°C Mold Temp / 30 Mpa Cavity press			
2.	2.0 mm/min			
3.	2.0 mm/min			
4.	10°C/min			

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