

Radilon® S HSXW 333 NER

Polyamide 6

Radici Plastics

Message:

PA6 injection moulding grade. Toughened, heat stabilized. Black colour.

Suitable for parts requiring improved impact resistance. Excellent heat ageing resistance.

ISO 1043 : PA6-I

General Information				
Additive	Heat Stabilizer			
Features	Good Heat Aging Resistance			
	Good Impact Resistance			
	Good Toughness			
	Heat Stabilized			
RoHS Compliance	RoHS Compliant			
Appearance	Black			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	PA6-I			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.09	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	9.2	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	2.7	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2650	--	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	65.0	--	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	4.0	--	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	> 50	--	%	ISO 527-2/1A/50
Flexural Modulus ¹	2300	--	MPa	ISO 178
Flexural Stress ²	85.0	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	--	kJ/m ²	
23°C	8.5	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	55.0	--	°C	ISO 75-2/Af

Vicat Softening Temperature	185	--	°C	ISO 306/B50
Melting Temperature ³	220	--	°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	500	--	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
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	260 to 290		°C	
Mold Temperature	70.0 to 80.0		°C	
Injection Rate	Moderate			
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10°C/min			

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