

Radilon® S CP300 100 NAT

Polyamide 6

Radici Plastics

Message:

PA6 30% mineral filled injection moulding grade. Natural colour.

Suitable for parts requiring good dimensional stability and mechanical properties, reduced shrinkage and low warpage.

ISO 1043 : PA6 MX30

General Information				
Filler / Reinforcement	Mineral,30% Filler by Weight			
Features	Good Dimensional Stability			
	Low Shrinkage			
	Low Warpage			
RoHS Compliance	RoHS Compliant			
Appearance	Natural Color			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	PA6 MX30			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	7.3	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	2.1	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5050	2350	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	80.0	55.0	MPa	ISO 527-2/1A/5
Tensile Strain (Yield)	3.5	19	%	ISO 527-2/1A/5
Nominal Tensile Strain at Break	13	35	%	ISO 527-2/1A/5
Flexural Modulus ¹	4450	--	MPa	ISO 178
Flexural Stress ²	125	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	3.5	--	kJ/m ²	
23°C	5.5	6.5	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	70	--	kJ/m ²	
23°C	75	85	kJ/m ²	

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	190	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	90.0	--	°C	ISO 75-2/Af
Vicat Softening Temperature	205	--	°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	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	0.0	--	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	240 to 280		°C	
Mold Temperature	80.0 to 90.0		°C	
Injection Rate	Moderate-Fast			
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10°C/min			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT