

Radilon® S 38E 100 NAT

Polyamide 6

Radici Plastics

Message:

PA6 high viscosity extrusion grade. Lubricated. Natural colour.

Suitable for extrusion of tubes, profiles, bars, rods and sheets.

Also apt for injection moulding of high thickness items.

ISO 1043 : PA6

General Information				
Additive		Lubricant		
Features		Lubricated		
Uses		Profiles		
		Rods		
		Sheet		
		Thick-walled Parts		
		Tubing		
RoHS Compliance		RoHS Compliant		
Appearance		Natural Color		
Processing Method		Extrusion		
		Injection Molding		
Resin ID (ISO 1043)		PA6		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	11	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	3.1	--	%	
Viscosity Number (H ₂ SO ₄ (Sulphuric Acid))	240	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2700	1100	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	75.0	40.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	4.0	30	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	95	> 100	%	ISO 527-2/1A/50
Flexural Modulus ¹	2500	750	MPa	ISO 178
Flexural Stress ²	100	30.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	--	kJ/m ²	
23°C	8.0	20	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	170	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	60.0	--	°C	ISO 75-2/Af
Vicat Softening Temperature	200	--	°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				IEC 60695-2-12
1.00 mm	850	--	°C	
2.00 mm	850	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
1.00 mm	850	--	°C	
2.00 mm	750	--	°C	
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	250 to 280		°C	
Mold Temperature	70.0 to 80.0		°C	
Injection Rate	Moderate			
Extrusion	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	2.0 to 4.0		hr	
Suggested Max Moisture	0.15		%	
Melt Temperature	240 to 270		°C	
NOTE				

1.	2.0 mm/min
2.	2.0 mm/min
3.	10°C/min

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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



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