

Radilon® S LVHPL128 100 NAT

Polyamide 6

Radici Plastics

Message:

PA6 low viscosity injection moulding grade. Plasticized. Natural colour.

Suitable for parts requiring very high flexibility and elongation at break.

ISO 1043 : PA6-P

General Information				
Additive	Plasticizer			
Features	Good Flexibility			
	High Elongation			
	Low Viscosity			
	Plasticized			
RoHS Compliance	RoHS Compliant			
Appearance	Natural Color			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	PA6-P			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.16	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	6.6	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.5	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1000	--	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	45.0	--	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	40	--	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	> 100	--	%	ISO 527-2/1A/50
Flexural Modulus ¹	800	--	MPa	ISO 178
Flexural Stress ²	30.0	--	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	18	--	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	50.0	--	°C	ISO 75-2/Af
Vicat Softening Temperature	165	--	°C	ISO 306/B50
Melting Temperature ³	215	--	°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
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 270		°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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