

Radilon® S LHS 105 M NAT

Polyamide 6

Radici Plastics

Message:

PA6 low viscosity injection moulding grade. Nucleated, fast cycling. High flowability. Natural colour.

Suitable for moulding of high productivity items.

ISO 1043 : PA6

General Information				
UL YellowCard		E148796-101473256	E195505-101510661	E337835-101516851
		E195508-101520653		
Additive		Nucleating Agent		
Features		Fast Molding Cycle		
		High Flow		
		Low Viscosity		
		Nucleated		
RoHS Compliance		RoHS Compliant		
UL File Number		E116324		
Appearance		Natural Color		
Processing Method		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	2.7	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3300	1200	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	80.0	45.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	4.0	30	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	20	> 50	%	ISO 527-2/1A/50
Flexural Modulus ¹	2900	--	MPa	ISO 178
Flexural Stress ²	110	--	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	5.5	10	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	190	--	°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)	V-2	--		UL 94
Glow Wire Flammability Index				IEC 60695-2-12
1.00 mm	750	--	°C	
2.00 mm	700	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
1.00 mm	775	--	°C	
2.00 mm	725	--	°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			
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

