

Radilon® S HSK 305 M NER (21038)

Polyamide 6

Radici Plastics

Message:

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

General purpose grade, suitable for parts requiring high productivity.

ISO 1043 : PA6-T

General Information				
Additive		Heat Stabilizer		
		Lubricant		
Features		General Purpose		
		Heat Stabilized		
		Lubricated		
RoHS Compliance		RoHS Compliant		
UL File Number		E116324		
Appearance		Black		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA6-T		
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	3200	1200	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	80.0	45.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	4.2	30	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	15	> 50	%	ISO 527-2/1A/50
Flexural Modulus ¹	2800	--	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	5.0	10	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (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	500	--	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 (2.00 mm)	700	--	°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	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			

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