

Radilon® S 40 EPT2606 333 NER

Polyamide 6

Radici Plastics

Message:

PA6 high viscosity extrusion grade. Plasticized, lubricated. High flexibility and high impact strength even at low temperatures. Black colour.

Suitable for extrusion processes. Typical application: cable jacketing.

ISO 1043 : PA6-HIP

General Information				
Additive	Lubricant			
	Plasticizer			
Features	Good Flexibility			
	Good Impact Resistance			
	High Viscosity			
	Low Temperature Impact Resistance			
	Lubricated			
	Plasticized			
Uses	Cable Jacketing			
RoHS Compliance	RoHS Compliant			
Appearance	Black			
Processing Method	Extrusion			
	Injection Molding			
Resin ID (ISO 1043)		PA6-HIP		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.08	--	g/cm ³	ISO 1183
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1500	--	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	38.0	--	MPa	ISO 527-2/1A/50
Nominal Tensile Strain at Break	> 100	--	%	ISO 527-2/1A/50
Flexural Modulus ¹	1150	--	MPa	ISO 178
Flexural Stress ²	40.0	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	60	--	kJ/m ²	ISO 179/1eA
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	60.0	--	°C	ISO 75-2/Af

Vicat Softening Temperature	135	--	°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	< 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	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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