

Radilon® A 35 990 E GRI

Polyamide 66

Radici Plastics

Message:

PA66 medium-high viscosity extrusion grade, also suitable for injection moulding. Natural grey colour.

Suitable for extrusion processes where medium-high viscosity is required. Also suitable for injection moulding of high thickness parts. Material designed for components requiring low friction coefficient and improved tribological properties. Typical application: cable jacketing.

ISO 1043 : PA66

General Information				
Features		Low Friction		
		Medium-high Viscosity		
Uses		Cable Jacketing		
		Thick-walled Parts		
RoHS Compliance		RoHS Compliant		
Appearance		Grey		
Processing Method		Extrusion		
		Injection Molding		
Resin ID (ISO 1043)		PA66		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Water Absorption (Saturation, 23°C, 2.00 mm)	8.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3300	2300	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	80.0	65.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	5.0	20	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	20	30	%	ISO 527-2/1A/50
Flexural Modulus ¹	2800	--	MPa	ISO 178
Flexural Stress ²	105	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.5	--	kJ/m ²	
23°C	5.5	7.0	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				

0.45 MPa, Unannealed	195	--	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	90.0	--	°C	ISO 75-2/Af
Vicat Softening Temperature	235	--	°C	ISO 306/B50
Melting Temperature	260	--	°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
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	270 to 290		°C	
Mold Temperature	70.0 to 90.0		°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	270 to 290		°C	
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			

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