

RADILON A ERV1906LK 100 NAT

*Material code**Colour code*

DESCRIPTION

PA66 13% glass fiber reinforced injection moulding grade. Toughened, lubricated and heat stabilized. Natural colour.

Suitable for parts requiring improved impact strength along with enhanced stiffness. A typical application are anti-vibration rings.

ISO 1043 : PA66-IT GF13

MATERIAL HANDLING AND PROCESSING

The material is delivered in moisture-proof packaging ready for processing. Maximum recommended water content for best processing is 0.15%. Typical conditions with a desiccant drier: temperature 80 ° C, dew point -20 ° C or below, time 2-4 h or more.

Special care must be taken to avoid moisture absorption and contamination with other polymers when adding regrind material. Colour variation and mechanical properties reduction may occur and should always be carefully monitored.

Processing Parameters

Melt Temperature:	Mold Temperature:	Injection Speed:
280 ÷ 300 °C	80 ÷ 100 °C	Medium-high

PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet

RoHS compliant 2002/95/CE and following amendments

Technical data sheet

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PROPERTY		STANDARD	UNIT	VALUE	
				DAM*	Cond**
Physical Properties					
Density		ISO 1183	Kg/m ³	1220	
Moulding shrinkage – Parallel / Normal	290/80/60***	ISO 294-4	%	0,4 / 0,8	
Moisture absorption 23°C – 50%RH	2mm thk	ISO 62	%	1.9	
Water absorption, immersion at 23°C	2mm thk	ISO 62	%	7.5	
Mechanical Properties					
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	5000	4200
Stress at Break	5mm/min	ISO 527-2/1A	MPa	100	
Strain at Break	5mm/min	ISO 527-2/1A	%	4	
Stress at Yield	50mm/min	ISO 527-2/1A	MPa		75
Yield Strain	50mm/min	ISO 527-2/1A	%		8
Nominal Strain at Break	50mm/min	ISO 527-2/1A	%		17
Flexural Modulus	2mm/min	ISO 178	MPa	4300	
Flexural Strength	2mm/min	ISO 178	MPa	150	
Charpy Impact Strength	+23°C	ISO 179/1 eU	KJ/m ²	75	100
Charpy Impact Strength	-30°C	ISO 179/1 eU	KJ/m ²	40	42
Charpy Notched Impact Strength	+23°C	ISO 179/1 eA	KJ/m ²	11.5	15
Charpy Notched Impact Strength	-30°C	ISO 179/1 eA	KJ/m ²	4.8	5
Thermal Properties					
Melting Temperature	10°C/min	ISO 11357-1-3	°C	260	
Heat Deflection Temperature	1.8 MPa	ISO 75/2 A f	°C	175	
Heat Deflection Temperature	0.45 MPa	ISO 75/2 B f	°C	230	
Vicat Softening Temperature	50°C/h	ISO 306/B50 50N	°C	235	
Flammability Properties					
Flammability	0.8mm	UL 94	class	HB	
Glow Wire Flammability Index	2mm	IEC 60695-2-1/2	°C/mm	700	
Automotive interior flammability	Burn rate	FMVSS302	mm/min	< 10	
Electrical Properties					
Volume resistivity	500V	IEC 60093	ohm · m	1 E+13	1 E+11
Surface resistivity	500V	IEC 60093	ohm	1 E+12	1 E+10
Comparative Tracking Index	Sol.A	IEC 60112	V	550	

*DAM = Dry As Moulded state **Cond = Conditioned state similar to ISO 1110 ***Melt Temp [°C] / Mold Temp [°C] / Cavity press [MPa]

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