

RADILON MIXLOY S RVA80 100 NT

DESCRIPTION

PA6/ABS blend, 8% glass fibre injection moulding grade. Natural colour.

Suitable for parts requiring improved stiffness and low moisture absorption. Excellent aesthetic surface aspect.

ISO 1043: (PA6+ABS)-GF8

REGIONAL AVAILABILITY: North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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.

Injection Molding Processing Parameters

Melt Temperature
240 - 260°C

Mold Temperature
40 - 60°C

Injection Speed
medium

PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet

ROHS compliant 2011/65/EU and following amendments



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PROPERTY		STANDARD	UNIT	VALUE	
				DAM*	Cond**
PHYSICAL PROPERTIES					
Density		ISO 1183	kg/m³	1150	
Moulding shrinkage - Parallel / Normal	260/60/60 ^[1]	ISO 294-4	%	0.4 / 0.6	
Water Absorption, immersion at 23°C	2mm	ISO 62	%	5.7	
Moisture Absorption 23°C - 50%RH	2mm	ISO 62	%	1.8	
MECHANICAL PROPERTIES					
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	4100	2600
Stress at Yield	50mm/min	ISO 527-2/1A	MPa	87	53
Yield Strain	50mm/min	ISO 527-2/1A	%	4	6.5
Nominal Strain at Break	50mm/min	ISO 527-2/1A	%	5.2	25
Flexural Modulus	2mm/min	ISO 178	MPa	3700	2350
Flexural Strength	2mm/min	ISO 178	MPa	140	85
Charpy Impact Strength	+23°C	ISO 179/1eU	kJ/m²	58	85
Charpy Notched Impact Strength	+23°C	ISO 179/1eA	kJ/m²	8	
THERMAL PROPERTIES					
Melting Temperature	10°C/min	ISO 11357-1/-3	°C	220	
Heat Deflection Temperature	1.80 MPa	ISO 75/2Af	°C	108	
Vicat Softening Temperature	50°C/h 50N	ISO 306	°C	165	

*: DAM = Dry As Moulded state according to ISO 16396-2, **: Cond = Conditioned state similar to ISO 1110

1: Melt Temperature [°C] / Mold Temperature [°C] / Cavity Pressure [MPa]

