

## PRODUCT INFORMATION

# RADILON MIXLOY S HSA20TK 100 NT

PRELIMINARY

### DESCRIPTION

PA6/ABS blend, injection moulding grade. Toughened. Heat stabilized. Natural colour.

Suitable for parts requiring high impact resistance and improved flexibility. Low moisture absorption.

ISO 1043: (PA6+ABS)-IT

Formerly known as LX19127.

*THE CHARACTERISTICS SHOWN HERE MUST BE CONSIDERED PRELIMINARY AND INDICATIVE FOR A PRODUCT AT DEVELOPMENTAL STAGE*

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

## TECHNICAL DATA SHEET

# RADILON MIXLOY S HSA20TK 100 NT

PROPERTY	STANDARD	UNIT	VALUE	
			DAM*	Cond**
<b>PHYSICAL PROPERTIES</b>				
Density	ISO 1183	kg/m <sup>3</sup>	1070	
Water Absorption, immersion at 23°C	2mm ISO 62	%	5.8	
Moisture Absorption 23°C - 50%RH	2mm ISO 62	%	1.9	
<b>MECHANICAL PROPERTIES</b>				
Tensile Modulus	1mm/min ISO 527-2/1A	MPa	2100	900
Stress at Yield	50mm/min ISO 527-2/1A	MPa	50	30
Yield Strain	ISO 527-2/1A	%	3.5	20
Nominal Strain at Break	50mm/min ISO 527-2/1A	%	>50	>100
Flexural Modulus	2mm/min ISO 178	MPa	2100	910
Flexural Strength	2mm/min ISO 178	MPa	70	33
Charpy Impact Strength	+23°C ISO 179/1eU	kJ/m <sup>2</sup>	N	N
Charpy Notched Impact Strength	+23°C ISO 179/1eA	kJ/m <sup>2</sup>	65	108
Charpy Notched Impact Strength	-30°C ISO 179/1eA	kJ/m <sup>2</sup>	15	
<b>THERMAL PROPERTIES</b>				
Melting Temperature	10°C/min ISO 11357-1/-3	°C	222	
Vicat Softening Temperature	50°C/h 50N ISO 306	°C	113	

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