

PRODUCT INFORMATION

RADILON CS 38TX 100 NT

DESCRIPTION

PA6/66 amorphous copolymer, high viscosity extrusion grade. Transparent, natural colour.

Suitable for extrusion of cast, blown and co-extruded films.

ISO 1043: PA6/66/IPDI

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 0.10%. 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
<=30°C

Injection Speed
medium

Extrusion Temperature
240 - 260°C

PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet
ROHS compliant 2011/65/UE and following amendments

TECHNICAL DATA SHEET

RADILON CS 38TX 100 NT

PROPERTY	STANDARD	UNIT	VALUE	DAM*	Cond**
PHYSICAL PROPERTIES					
Density	ISO 1183	kg/m ³	1120		
Water Absorption, immersion at 23°C	2mm ISO 62	%	10.2		
Moisture Absorption 23°C - 50%RH	2mm ISO 62	%	3		
Viscosity Index (Sulfuric Acid)	ISO 307	ml/g	230		
MECHANICAL PROPERTIES					
Tensile Modulus	1mm/min ISO 527-2/1A	MPa	2200		
Stress at Yield	50mm/min ISO 527-2/1A	MPa	65		
Yield Strain	ISO 527-2/1A	%	4		
Nominal Strain at Break	50mm/min ISO 527-2/1A	%	>100		
Flexural Modulus	2mm/min ISO 178	MPa	2200		
Flexural Strength	2mm/min ISO 178	MPa	75		
Charpy Notched Impact Strength	+23°C ISO 179/1eA	kJ/m ²	5.5		
Charpy Notched Impact Strength	-30°C ISO 179/1eA	kJ/m ²	5		
THERMAL PROPERTIES					
Melting Temperature	10°C/min ISO 11357-1/-3	°C	195		
Heat Deflection Temperature	1.80 MPa ISO 75/2Af	°C	45		
Heat Deflection Temperature	0.45 MPa ISO 75/2Bf	°C	50		
FLAMMABILITY PROPERTIES					
Flammability	0.8mm UL 94	class	HB		
Glow Wire Flammability Index	2mm IEC 60695-2-1/2	°C	650		
Automotive Interior Flammability	3mm ISO 3795	mm/min	<10		
ELECTRICAL PROPERTIES					
Volume Resistivity	500V IEC 60093	Ohm*m	1E13	1E11	
Surface Resistivity	500V IEC 60093	Ohm	1E12	1E10	

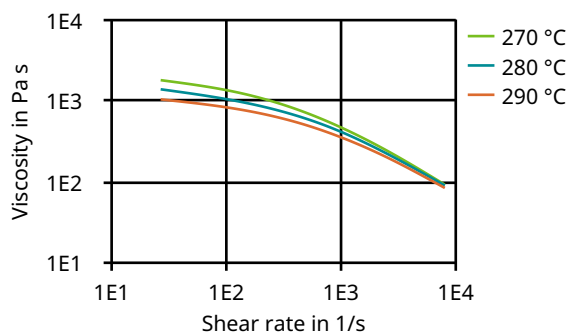
*: DAM = Dry As Moulded state according to ISO 16396-2 **: Cond = Conditioned state similar to ISO 1110

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Diagrams

Viscosity-shear rate



Shearstress-shear rate

