

RADILON D 40EP25ZW 7037 BL

DESCRIPTION

PA610 flexible, high viscosity extrusion grade. Toughened and plasticized. Heat stabilized. Blue colour.

Suitable for extrusion of pipes, profiles and cable jackets. Good impact resistance also at low temperatures. This grade is partially renewably-sourced (64% of base polymer by weight).

ISO 1043: PA610-HI-P

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

230 - 260°C

Extrusion Temperature

240 - 290°C

Mold Temperature

70 - 80°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		kg/m ³	1050		
Moulding shrinkage - Parallel / Normal	270/60/60 ^[1]	ISO 1183 ISO 294-4	%	1.6 / 1.6	
Water Absorption, immersion at 23°C	2mm	ISO 62	%	2	
Moisture Absorption 23°C - 50%RH	2mm	ISO 62	%	0.9	
MECHANICAL PROPERTIES					
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	550	380
Nominal Strain at Break	50mm/min	ISO 527-2/1A	%	>100	>100
Stress at 50% Strain		ISO 527-2/1A	MPa	28	24
Flexural Modulus	2mm/min	ISO 178	MPa	480	330
Flexural Strength	2mm/min	ISO 178	MPa	20	15
Charpy Notched Impact Strength	+23°C	ISO 179/1eA	kJ/m ²	110	120
Charpy Notched Impact Strength	-30°C	ISO 179/1eA	kJ/m ²	55	
THERMAL PROPERTIES					
Melting Temperature	10°C/min	ISO 11357-1/-3	°C	218	
Heat Deflection Temperature	1.80 MPa	ISO 75/2Af	°C	50	
Heat Deflection Temperature	0.45 MPa	ISO 75/2Bf	°C	100	
ELECTRICAL PROPERTIES					
Volume Resistivity	500V	IEC 62631-3-1	Ohm*m	1E13	1E11
Surface Resistivity	500V	IEC 62631-3-2	Ohm	1E12	1E10

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

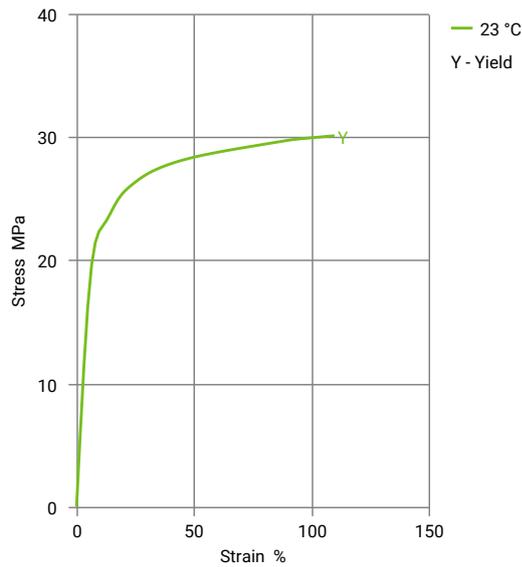
1: Melt Temperature [°C] / Mold Temperature [°C] / Cavity Pressure [MPa]



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DIAGRAMS

Stress-strain (dry)



Secant modulus-strain (dry)

