RADILON D 40EP25ZW 7037 BL

PA610 RadiciGroup High Performance Polymers

Product Texts

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).

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**1.6 / ***	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**1.6 / ***	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**550 / 380**	MPa	ISO 527
[C] Stress at 50% strain	**28 / 24**	MPa	ISO 527
[C] Strain at break	**>50 / >50**	%	ISO 527
[C] Charpy notched impact strength, +23°C	**110 / 120**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**55 / -**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**218 / ***	°C	ISO 11357-1/-3
[C] Temp. of deflection under load, 1.80 MPa	**50 / ***	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**100 / ***	°C	ISO 75-1/-2

[C]: CAMPUS

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
[C] Volume resistivity	**1E13 / 1E11**	Ohm*m	IEC 62631-3-1
[C] Surface resistivity	*** / 1E10**	Ohm	IEC 62631-3-2

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
[C] Water absorption	**2 / ***	%	Sim. to ISO 62
[C] Humidity absorption	**0.9 / ***	%	Sim. to ISO 62
[C] Density	**1050 / -**	kg/m³	ISO 1183
Biobased content	**60**	%	-

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80**	°C	-
Pre-drying - Time	**2 - 4**	h	-
Processing humidity	**≤0.1**	%	-
Melt temperature	**230 - 260**	°C	-
Mold temperature	**70 - 80**	°C	-

Characteristics

Processing

Injection Molding, Pipe/Tube Extrusion, Profile Extrusion, Wire/Cable Extrusion

Special Characteristics

High impact or impact modified, Heat stabilized or stable to heat

Delivery form

Granules

Certifications

Contains renewable resources

Additives
Plasticizer

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding
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	Mold Temperature	Injection Speed
230 - 260°C	70 - 80°C	medium

Extrusion Temperature
240 - 290°C