

# RADILON D 40EP50XK 1C NER 7572

Material code

Colour code

PROVISIONAL

## DESCRIPTION

PA610 anti-static extrusion grade. Toughened and plasticized. Heat stabilized. Black colour.

Suitable for extrusion of pipes with antistatic properties for automotive and industrial application. It offers improved impact resistance.

This grade is partially renewably-sourced (60% of base polymer by weight).

ISO 1043 : PA610-HI-P

## 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.

### Processing Parameters

Melt Temperature:	Mold Temperature:	Injection Speed:	Extrusion Temp: 230 ÷ 250 °C
230 ÷ 260 °C	70 ÷ 80 °C	Medium	

## 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

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PROPERTY		STANDARD	UNIT	VALUE	
				DAM*	Cond**
<b>Physical Properties</b>					
Density		ISO 1183	Kg/m <sup>3</sup>	1130	
Moisture absorption 23°C – 50%RH	2mm thk	ISO 62	%	0.7	
Water absorption, immersion at 23°C	2mm thk	ISO 62	%	1.5	
<b>Mechanical Properties</b>					
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	990	
Stress at Yield	50mm/min	ISO 527-2/1A	MPa	34	
Yield Strain	50mm/min	ISO 527-2/1A	%	23	
Nominal Strain at Break	50mm/min	ISO 527-2/1A	%	50	
Flexural Modulus	2mm/min	ISO 178	MPa	960	
Flexural Strength	2mm/min	ISO 178	MPa	32	
Charpy Notched Impact Strength	+23°C	ISO 179/1 eA	KJ/m <sup>2</sup>	50	
<b>Thermal Properties</b>					
Melting Temperature	10°C/min	ISO 11357-1-3	°C	217	
Heat Deflection Temperature	1.8 MPa	ISO 75/2 A f	°C	50	
<b>Flammability Properties</b>					
Automotive interior flammability	Burn rate	FMVSS302	mm/min	<30	
<b>Electrical Properties</b>					
Surface resistivity	500V	IEC 60093	ohm	< 1 E+5	< 1 E+5

The characteristics shown here must be considered purely provisional and indicative for a product at developmental stage.

\*DAM = Dry As Moulded state \*\*Cond = Conditioned state similar to ISO 1110 \*\*\*Melt Temp [°C] / Mold Temp [°C] / Cavity press [MPa]