

PRODUCT INFORMATION

RADILON DT 40E50USR 333C BK

PRELIMINARY

DESCRIPTION

PA612 semi-rigid, high viscosity extrusion grade. Toughened. Improved resistance to uric acid solutions. Black color.

Suitable for extrusion of profiles, tubes and pipes. Material especially developed for automotive under the hood applications, employed in selective catalytic reductions (SCR) systems.

ISO 1043: PA612-I

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 0.10%. Typical conditions with a desiccant drier: temperature 80 ° C, dew point -20 ° C or below, time 2-4 h or more. Avoid excessive shear rates and high thermal stresses for better processing. 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.

Rear	Center Rear	Center Front	Front	Head and Die	Melt Temp
220°C	250°C	260°C	270°C	275 - 280°C	275°C
428°F	482°F	500°F	518°F	527 - 536°F	527°F

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 DT 40E50USR 333C BK

PROPERTY	STANDARD	UNIT	VALUE	
			DAM*	Cond**
PHYSICAL PROPERTIES				
Density	ISO 1183	kg/m ³	1010	
Water Absorption, immersion at 23°C	2mm ISO 62	%		2
Moisture Absorption 23°C - 50%RH	2mm ISO 62	%		0.8
MECHANICAL PROPERTIES				
Tensile Modulus	1mm/min ISO 527-2/1A	MPa	950	
Stress at Yield	50mm/min ISO 527-2/1A	MPa	31	
Flexural Modulus	2mm/min ISO 178	MPa	750	
Flexural Strength	2mm/min ISO 178	MPa	30	
Charpy Notched Impact Strength	+23°C ISO 179/1eA	kJ/m ²	75	
Charpy Notched Impact Strength	-30°C ISO 179/1eA	kJ/m ²	68	
THERMAL PROPERTIES				
Melting Temperature	10°C/min ISO 11357-1/-3	°C	212	
ELECTRICAL PROPERTIES				
Volume Resistivity	500V IEC 60093	Ohm*m	1E13	1E11

*: DAM = Dry As Moulded state according to ISO 16396-2 **: Cond = Conditioned state similar to ISO 11110