

RADILON DT HSW 105 M NT

DESCRIPTION

PA612 injection moulding grade. Nucleated and lubricated, fast cycling. Heat stabilized. Natural colour.

General purpose grade, suitable for parts requiring high productivity.

ISO 1043: PA612

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.

Injection Molding Processing Parameters

Melt Temperature
230 - 260°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	ISO 1183	kg/m ³	1060	
Moulding shrinkage - Parallel / Normal	ISO 294-4	%	1.0 / 1.1	
Water Absorption, immersion at 23°C	ISO 62	%	3	
Moisture Absorption 23°C - 50%RH	ISO 62	%	1.2	
MECHANICAL PROPERTIES				
Tensile Modulus	ISO 527-2/1A	MPa	2500	
Stress at Yield	ISO 527-2/1A	MPa	62	
Yield Strain	ISO 527-2/1A	%	12	
Nominal Strain at Break	ISO 527-2/1A	%	35	
Flexural Modulus	ISO 178	MPa	2300	
Flexural Strength	ISO 178	MPa	80	
Charpy Notched Impact Strength	ISO 179/1eA	kJ/m ²	4.5	
THERMAL PROPERTIES				
Melting Temperature	ISO 11357-1/-3	°C	215	
FLAMMABILITY PROPERTIES				
Flammability	UL 94	class	V-2	
Automotive Interior Flammability	ISO 3795	mm/min	0	
ELECTRICAL PROPERTIES				
Volume Resistivity	IEC 62631-3-1	Ohm*m	1E13	1E11
Surface Resistivity	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]

