

RADILON A VHS 338 M BK

DESCRIPTION

PA66 injection moulding grade. Nucleated for fast cycles. Black colour.

Suitable for parts requiring high productivity. Specifically developed for automotive head light bezels.

ISO 1043: PA66

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
270 - 290°C

Mold Temperature
70 - 90°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/m³	1140	
Moulding shrinkage - Parallel / Normal	290/70/60 [1]	ISO 294-4	%	0.8 / 1.1	
Water Absorption, immersion at 23°C	2mm	ISO 62	%	8.9	
Moisture Absorption 23°C - 50%RH	2mm	ISO 62	%	2.1	
MECHANICAL PROPERTIES					
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	3300	1300
Stress at Yield	50mm/min	ISO 527-2/1A	MPa	88	55
Yield Strain	50mm/min	ISO 527-2/1A	%	3.3	
Nominal Strain at Break	50mm/min	ISO 527-2/1A	%	4	
Flexural Modulus	2mm/min	ISO 178	MPa	3200	
Flexural Strength	2mm/min	ISO 178	MPa	125	
Charpy Notched Impact Strength	+23°C	ISO 179/1eA	kJ/m²	5	12
Charpy Notched Impact Strength	-30°C	ISO 179/1eA	kJ/m²	4	
THERMAL PROPERTIES					
Melting Temperature	10°C/min	ISO 11357-1/-3	°C	260	
Heat Deflection Temperature	1.80 MPa	ISO 75/2Af	°C	70	
Vicat Softening Temperature	50°C/h 50N	ISO 306	°C	240	
FLAMMABILITY PROPERTIES					
Flammability	0.8mm	UL 94	class	HB	
Glow Wire Flammability Index	2mm	IEC 60695-2-12	°C	800	
Automotive Interior Flammability	3mm	ISO 3795	mm/min	0	
ELECTRICAL PROPERTIES					
Volume Resistivity	500V	IEC 62631-3-1	Ohm*m	1E13	1E11
Surface Resistivity	500V	IEC 62631-3-2	Ohm	1E12	1E10
Comparative Tracking Index	Sol.A	IEC 60112	V	500	

*: 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]

