

RK 441 N

Provisional Data Sheet

Polystyrene

Edistir® RK 441 N is a high impact polystyrene suitable for hot Glow Wire Test.
Edistir® RK 441 N is HBCD free and antimony free.

The formulation of Edistir® RK 441 N ensures excellent colour stability even after long dwell times in injection moulding machine.

Applications

Edistir® RK 441 N is suitable for the production of:

- electrical and electronics
- circuit breaker boxes
- cable junction boxes

Typical processing data

Injection moulding:

- predrying normally not required
- melt temperature 210 - 220°C
- mould temperature 20 - 60°C

Certification

Storage

- ⚠ Store away from atmospheric agents and direct sunlight, away from sources of heat and light.
- 🕒 The product, if stored correctly, keeps its characteristics for at least fifteen months.

General information

Edistir® RK 441 N is available in grey shade Versalis code 33010 (equal to RAL 7035).

For further information, please contact Versalis directly writing to info.styrenics@versalis.eni.com.

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Property	Test Conditions	Test method	Units	Values
General				
Water absorption	24h - 23°C	ISO 62	%	< 0,1
Density	-	ISO 1183	g/cm ³	1,05
Bulk density	-	ISO 60	g/cm ³	0,67
Rheological				
Melt flow rate	200°C - 5kg	ISO 1133	g/10'	10
Mechanical				
Tensile stress at yield	50 mm/min	ISO 527	MPa	23
Tensile modulus	1 mm/min	ISO 527	MPa	2120
Izod impact strength, notched	+23°C - 4mm	ISO 180/1A	kJ/m ²	7
Thermal				
Coefficient of linear thermal expansion	-	ASTM D 696	10 ⁻⁵ /°C	7
Thermal conductivity	-	ISO 8302	W/(K.m)	0,17
Moulding shrinkage	-	ISO 294/4	%	0,4 ÷ 0,7
Vicat softening temperature	50 N - 50°C/h	ISO 306/B	°C	88
Vicat softening temperature	10 N - 50°C/h	ISO 306/A	°C	96
Flammability				
Glow wire test (GWT)	2 mm	IEC 60695-2-10	°C	750

Please consult the relevant safety data sheet for more detailed information.

The information and data presented herein are to the best of our knowledge true and accurate but no warranty or guarantee, expressed or implied, is made nor is any liability accepted.

Versalis is available to provide the guaranteed values for each product on demand.