

RK 421Q

Technical Data Sheet

Polystyrene

Edistir® RK 421Q is HBCD and antimony free high impact polystyrene suitable for hot glow wire test.

The formulation of Edistir® RK 421 Q ensures excellent colour stability even after long dwell times in injection moulding machine.

Edistir® RK 421Q can be used in mix with injection moulding HIPS such as Edistir® RT 441M.

Applications

Edistir® RK 421Q is suitable in sectors such as:

- circuit breaker boxes
- cable junction boxes
- electrical appliances.

Typical processing data

Injection moulding:

- melt temperature up to 210°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 421Q is available in grey version Versalis code 33010.

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	1,07
Bulk density	-	ISO 60	g/cm ³	0,7
Rheological				
Melt flow rate	200°C - 5kg	ISO 1133	g/10'	17
Mechanical				
Tensile strain at break	50 mm/min	ISO 527	%	60
Tensile stress at break	50 mm/min	ISO 527	MPa	28
Tensile stress at yield	50 mm/min	ISO 527	MPa	26
Tensile modulus	1 mm/min	ISO 527	MPa	2400
Izod impact strength, notched	+23°C - 4mm	ISO 180/1A	kJ/m ²	5
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	86
Vicat softening temperature	10 N - 50°C/h	ISO 306/A	°C	95
Flammability				
Flame behaviour	1,5 mm	Internal Test	cl.	V-2
Glow wire test (GWT)	1,6 mm	IEC 60695-2-10	°C	800

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

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