Edistir®

versalis

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.

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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/cm³	1,07
Bulk density	-	ISO 60	g/cm³	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/m²	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