

Romiloy® 5720 UV

Polycarbonate + PBT

ROMIRA GmbH

Message:

Romiloy® 5720 UV is a polycarbonate polybutene terephthalate (PC PBT) material. This product is available in Europe, and the processing method is injection molding.

Romiloy® The main characteristics of 5720 UV are:

flame retardant/rated flame

Good UV resistance

chemical resistance

UV stability

General Information			
Additive	UV stabilizer		
Features	Good UV resistance		
	Good chemical resistance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.20	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	38	g/10 min	ISO 1133
Molding Shrinkage (23°C)	0.40 - 0.60	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2380	MPa	ISO 527-2/1
Tensile Stress (Yield, 23°C)	60.0	MPa	ISO 527-2/50
Tensile Strain (Break, 23°C)	50	%	ISO 527-2/50
Flexural Modulus ¹ (23°C)	2350	MPa	ISO 178
Flexural Stress ² (23°C)	92.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	10	kJ/m ²	ISO 179/1eA
23°C	40	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	89.0	°C	ISO 75-2/A
Vicat Softening Temperature	117	°C	ISO 306/B50
CLTE - Flow (23 to 55°C)	9.0E-5	cm/cm/°C	ISO 11359-2
Flammability	Nominal Value		Test Method

Flame Rating (1.60 mm)	HB	UL 94
Additional Information		
The value listed as Molding Shrinkage ISO 294-4, was tested in accordance with DIN 16901.The value listed as Coefficient of Linear Thermal Expansion ISO 11359-1-2, was tested in accordance with DIN 53752.Tensile Strain at Break, ISO 527, 23°C, 50 mm/min: >50%		
Injection	Nominal Value	Unit
Drying Temperature	< 80.0	°C
Drying Time	2.0 - 4.0	hr
Suggested Max Moisture	0.050	%
Suggested Max Regrind	5	%
Rear Temperature	230 - 260	°C
Middle Temperature	230 - 260	°C
Front Temperature	230 - 260	°C
Processing (Melt) Temp	< 260	°C
Mold Temperature	60.0 - 90.0	°C
Injection Rate	Moderate	
Back Pressure	< 1.00	MPa
Screw Speed	12 - 18	rpm
Injection instructions		
Holding Pressure: moderate to high		
NOTE		
1.	2.0 mm/min	
2.	2.0 mm/min	

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