

B95 P2 G30 U0 H

ISSUED: 20/05/2021

ISO 9001 CERTIFIED

Terylene B95 P2 G30 U0 H is a PBT Flame Retardant, Injection Molding grade, 30% Glass Fiber Reinforced.

PROPERTIES	CONDITIONS	TEST METHOD	UNITS	VALUES
PHYSICAL PROPERTIES	CONDITIONS		01113	VALUES
Density	23 °C	ISO 1183	g/cm ³	1,62
Moisture absorption	23 ℃ / 50% r.h.	ISO 62	%	0,2
Water absorption	23 ºC / saturation in water	ISO 62	%	0,4
PROCESSING CONDITIONS				
Melt Volume rate	250°C/2,16 kg	ISO 1133	cm ³ /10 min	15
Melt temperature, injection moulding			٥C	250 - 290
Mould temperature			٥C	70 - 90
Moulding Shrinkage	longitudinal transversal		%	0,30 - 0,40 1,0 - 1,2
MECHANICAL PROPERTIES				
Tensile modulus	23 ºC, 1 mm/min	ISO 527-1-2	MPa	11.000
Tensile strength	23 ºC, 50 mm/min	ISO 527-1-2	MPa	140
Elongation at break	23 ºC, 50 mm/min	ISO 527-1-2	%	2,0
Flexural modulus	23 ºC, 2 mm/min	ISO 178	MPa	9.500
Flexural strength	23 °C, 2 mm/min	ISO 178	MPa	190
Charpy unnotched impact strength	23°C	ISO 179/1eU	kJ/m ²	45
Charpy notched impact strength	23°C	ISO 179/1eA	kJ/m ²	8,0
FLAMMABILITY PROPERTIES				
Flammability	1,5 mm	UL-94	Class	V0
Glow Wire Flammability Index	1,5 mm	IEC 60695-2-12	°C	960
THERMAL PROPERTIES				
Melting temperature (DSC)	10ºC/min	ISO 3146	°C	223
Heat Deflection Temperature (HDT)	1,8 MPa 0,45 MPa	ISO 75-1-2	°C	205 220
Thermal coefficient of linear expansion	23-80°C long.	ISO 11359-1/-2	10 ⁻⁴ /K	0,2
ELECTRICAL PROPERTIES				
Volume resistivity		IEC 60093	Ω.m	>10 ¹³
Surface resistivity		IEC 60093	Ω	>10 ¹³
Comparative tracking index		IEC 60112		250



NUREL ENGINEERING POLYMERS Ctra. Barcelona km 329 50016 Zaragoza. Spain T +34 976 465 579 F +34 976 574 108 nurelpolymers.com



CHARACTERISTICS

Terylene B95 P2 G30 U0 H is distinguished by extra high mechanical strength, hardness, rigidity and thermo stability. Parts made from Terylene B95 P2 G30 U0 H have particularly high dimensional stability. Its flame retardant system enhances its flame behavior to V0 class and an outstanding behavior to Glow Wire tests.

APPLICATIONS

Terylene B95 P2 G30 U0 H is used in a wide range of applications where a combination of mechanical properties, thermal resistance and flame retardancy are needed. Its excellent mechanical properties, and its flame retardant properties make it suitable for components specially used in electrical, electronic and automotive industries.

FORMAT AND STORAGE

Terylene B95 P2 G30 U0 H is supplied in moisture-proof packaging. Typical formats are Big Bag, octabin, and 25kg bags. All containers are perfectly sealed. The product should be stored in a dry place and opened just before processing.

PROCESSING GUIDELINES

Drying

Max. Water content: 0,04%

To ensure the best performance, this product should be dried before moulding and maintained at a moisture level of less than 0,04%. When drying is necessary, conditions are:

Dehumidifying dryers temperature: 100-120 °C Drying time: 4 hours

Injection moulding

The recommended processing parameters for injection moulding are:Melt temperature: 250-290°CMould temperature: 70-90 °CInjection speed: HighBack pressure: Moderate

Shrinkage

The shrinkage of a moulded part is influenced by wall thickness, mould gating, and moulding conditions.

NOTE

All recommendations are based on knowledge and experience; The values have been established on standardized tests. The figures should be regarded as guide values and not as binding minimum values. As many factors may affect processing or applications, we recommend that customers make their own tests to determine the suitability of a product for its particular use.



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