



WANHUA CHEMICAL
(BEIJING) CO., LTD.

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Polyurethane Composite Solution



Innovation Creates Excellence

Polyurethane Composite Solution

WANHUA CHEMICAL devoted to providing system polyurethane composite solutions for many applications such as automotive, rail transit, electric power, building materials and so on.

AUTOMOTVE



RAIL TRANSIT



ELETRIC POWER



BUILDING MATERIALS



AGRICULTURAL MACHINERY MANUFACTURE



COMPOSITES

About Us

Wanhua Chemical (Beijing) Co., Ltd. is a wholly-owned subsidiary of Wanhua Chemical Group Co., Ltd. Founded in 2003, it is a high-tech company specialized in R&D, and the production and marketing of PU application and acrylic acid downstream products; we have the largest PU R&D facility in China and a national accredited laboratory.

Adhering to the corporate spirit of practicality, innovation and pursuit of excellence, Wanhua Beijing dedicated to promoting the commercialization and industrialization of scientific achievements. Our products involve in most aspects of life, including textile and printing, packaging, automotive, rail transit, paving and protection, furniture, coating and sporting goods. With three major production bases, integrated operation of one industrial park and sophisticated marketing channels, we guarantee the supply stability and customer's continuous production. And we have provided value-added products and service for hundreds of companies all over the world.

With sustainable technology development and innovation, Wanhua Chemical (Beijing) Co., Ltd. is committed to creating a better life for human and becoming a leading chemical new material company with global distribution and competitiveness.

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Foaming Polyurethane Composite

Long Fiber Injection Molding (LFI)

Wanhua system can meet the demand of bus/truck dashboard, elevated box and air duct.

WANEFLEX[®] 682 has been used in truck exterior trim.

Items	Mold Temperature (°C)	Demolding time (min)	Density (kg/m ³)	Product Features
WANEFLEX [®] 683 System	55-60	5-7	500-700	Fast cure, Excellent flowability, High GF content, Low VOC
WANEFLEX [®] 682 System	50-55	8-10	700-1100	Excellent mechanical properties and heat resistance, High surface finish



Foaming Polyurethane Composite

Polyurethane Honeycomb Molding (PHC)

Applied to sunroof, trunk cover coat hanger, etc.



Items	Mold Temperature (°C)	Demolding time (s)	Density (kg/m ³)	Product Features
WANEFLEX ® 693 System	100-140	90-120	200-500	Good release performance, long cream time and fast cure Smooth surface, excellent mechanical properties and low VOC





Structure Resin Injection Molding (SRIM)

Applied to sunroof with SRIM system.

Items	Mold Temperature (°C)	Demolding time (min)	Density (kg/m ³)	Product Features
WANEFLEX [®] 687 System	50-55	1-3	200-400	Low density, fast curing



Non-foaming Polyurethane Composite

Pultrusion

WANEFLEX[®] 650 system can be applied to the production of cable tray, cross arm, door/window frame, container tray and other profiles.



Items	Units	Testing Method	WANEFLEX [®] 650 System
Density	kg/m ³	GB/T 1463-2005	2100
Gel Time	min	/	15-25
Flexural Strength	MPa	GB/T 3356-1999	1300
Flexural Modulus	GPa	GB/T 3356-1999	52
Flexural Strain	%	GB/T 3356-1999	2.8



Non-foaming Polyurethane Composite

Filament Winding

WANEFLEX[®] 654 system can be applied to the production of inner layer of wire pole. Out layer system can provide excellent outdoor aging resistance.

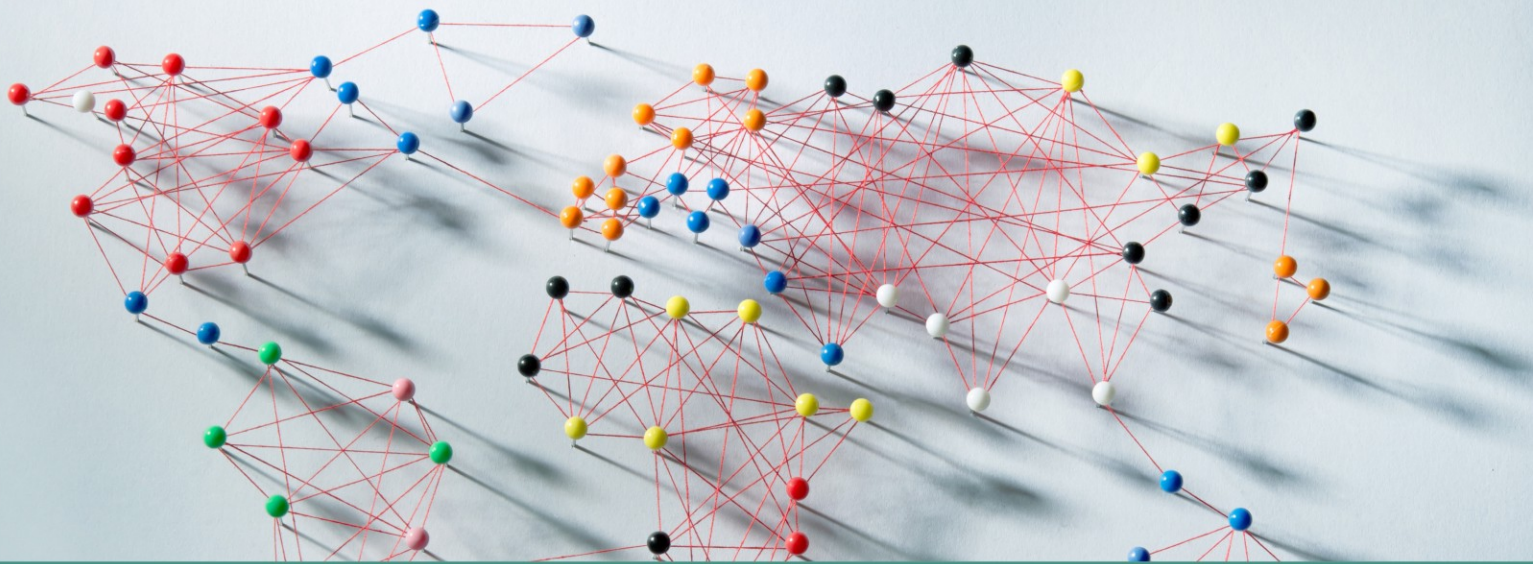
Items	Units	Testing Method	WANEFLEX [®] 654 System
Gel time	min	/	20-30
Tensile Strength	MPa	GB/T 2568-1995	70
Tensile Modulus	GPa	GB/T 2568-1995	2.9
Elongation	%	GB/T 2568-1995	>5



RTM

WANFLEX[®] 655H system has excellent flowability that can be applied to the production of complex structure parts, such as battery case, bumpers, wings, hulls, ect.

Resin Transfer Molding	Units	Testing Method	WANFLEX [®] 655H System
Gel time	min	/	5-7
Tensile Strength	MPa	GB/T 2568-1995	70
Tensile Modulus	GPa	GB/T 2568-1995	2.9
Elongation	%	GB/T 2568-1995	>3



CONTACT US

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Statement

The data given in this manual is based on our current knowledge and experience. Specific data involved is only technical advice. The actual product performance should be based on sales contracts. Wanhua Chemical (Beijing) Co., Ltd. has rights to develop, change or retain the original data by technological innovation.

Products may be toxic, so every user must confirm the correct usage before application. User is responsible for all the consequences arising due to improper operation. We also suggest using under the technical advice. Wanhua Chemical (Beijing) Co., Ltd. is not legally liable for losses due to not operating under the proposed conditions.

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