



HERCULES GLOSSY

PPF 72"X50' (1.83M X 15.24M)

PN: R3531

TECHNICAL DATA SHEET

1. PRODUCT IDENTIFIER

HERCULES GLOSS PPF 72"X50' (1.83M X 15.24M)

1.1. Relevant uses: for car body protection with self-healing properties

1.2. Details of the supplier of the safety data sheet

Company: RHINOMOTIVE LTD - UK 71-75 SHELTON STREET, LONDON, UNITED KINGDOM

Emergency contact number +971 4 329 7775

Email: info@rhinomotive.com

2. AVAILABLE SIZES/SHADES

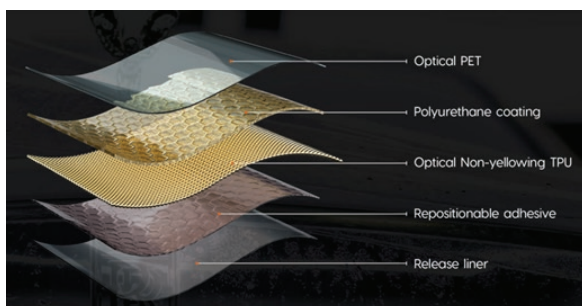
No	P.N.	Product name	Size	Colour	Package
1	R3529	HERCULES GLOSS PPF 60"X65' (1.52M X 19.8M)	60"X65' (1.52M X 19.8M)	Transparent	1 Roll
2	R3531	HERCULES GLOSS PPF 72"X50' (1.83M X 15M)	72"X50' (1.83M X 15.24M)	Transparent	1 Roll

3. TECHNICAL SPECIFICATIONS

No	Category	Value
1	Top Coating	Hercules PPF
2	Base Film Type	Polycaprolactone Aliphatic TPU
3	Adhesive Type	Repositionable Acrylic PSA
4	Self-healing	PASS
5	Film Thickness	8 MIL (203 MICRONS)
6	Warranty	12 years
7	Temperature Resistance	-40 °C to 120 °C
8	Tensile Strength	31N
9	Tear Strength	87N
10	60° Surface Gloss	96
11	UV Test	6000 Hours Pass
12	Chemical Resistance	No Harm
13	Anti Rock Chips Test	PASS

4. FILM STRUCTURE

No	Chemical Name	Additional identification	Concentration
1	Polyurethane Film	CAS-No.: 65916-86-1	50 - 60%
2	Polymerized Release Liner	CAS-No.: proprietary	25 - 35%
3	Adhesive	CAS-No.: proprietary	7 - 15%
4	Topcoat	CAS-No.: proprietary	1 - 4%



5. DIRECTIONS FOR USE

- A state-of-the-art PPF that is engineered in a way that combines the best of PPF and Ceramic Coatings.
- It has an innovative powerful topcoat that delivers self-healing protection and super hydrophobic, self-cleaning capabilities.
- This material will not leave any excessively adhesive residue, so you won't have to worry about ruining your existing paintwork after every replacement.
- It Prevents Colour fading and protects your paintwork from scratches, pesky insects, bird droppings and stone chips. It will also provide a smooth surface with exceptional gloss and no orange-peel texture.

6. SHELF LIFE

12 YEARS

7. PERFORMANCE PROPERTIES

Refer to Test Report

8. STORAGE

- Store in a dry and well-ventilated area between 20 - 30°C and 30 - 60% relative humidity

9. TEST REPORT

CUSTOMER NAME: RHINOMOTIVE LTD UK
 ADDRESS: 71-75 SHELTON STREET, LONDON, UNITED KINGDOM
 Sample Name : Paint Protection Film

Test Required : Density Test, Tear Strength Test, Tensile Test, Appearance Test, Thickness Deviation Test, Discoloration Resistance Test

Date of Receipt : Feb 16, 2022 Testing Start Date : Feb 16, 2022 Testing End Date : Feb 23, 2022
 Test result(s) : For further details, please refer to the following page(s)
 (Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

1. Density Test:

Sample Description: Transparent film

Test Method: HG/T 5070-2016 Section 6.4.2 & GB/T 533-2008 Method A

Test Condition:

Deionized water, 23 ± 2 °C

Lab Environmental Condition: 23 ± 2 °C, 50 ± 5 %RH Test Result:

Test Item	Test Result
Density	1.13 g/cm ³

Note:

1. Tear off the protective film and release paper of the sample before testing.
2. Test specimens were cut from the sample.

Original Sample Photo:



2. Tear Strength Test:

Sample Description: Transparent film

Test Method: HG/T 5070-2016 Section 6.4.4 & GB/T 529-2008 Method B Procedure (b)

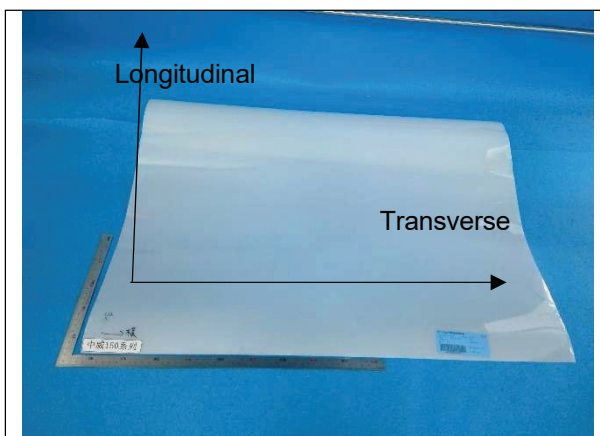
Test Condition:

Specimen thickness: Transverse: 0.179 mm; Longitudinal: 0.179 mm Testing speed: 500 mm/min

Lab Environmental Condition: 23±2°C, 50±5%RH Test Result:

Test Item	Test Result	
Tear Strength	Transverse	42 kN/m
	Longitudinal	39 kN/m

Note: Test specimens were cut from the sample.
Original Sample Photo:



3. Tensile Test:

Sample Description: Transparent film

Test Method: HG/T 5070-2016 Section 6.4.3 & GB/T 528-2009 Test Condition:

Specimen: Type 1

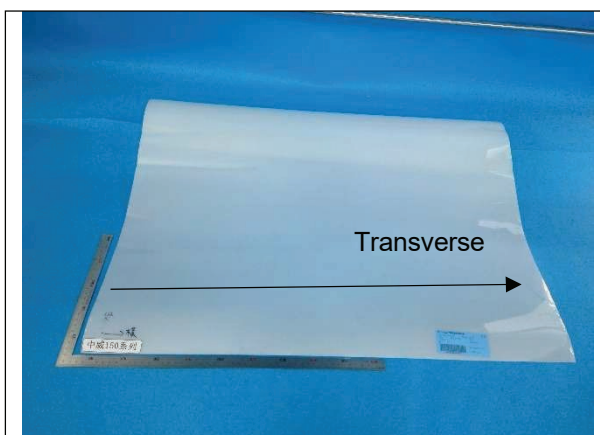
Specimen thickness: 0.183 mm Testing speed: 500 mm/min Gauge length: 25 mm

Lab Environmental Condition: (23 ± 2) °C, (50 ± 5) % RH

Test Result:

Test Item	Test Result	
Tensile Strength	Transverse	20.6 MPa
Elongation at Break	Transverse	255 %

Note: Test specimens were cut from the sample.
Original Sample Photo:



4. Appearance Test:

Sample Description: Transparent film

Test Method: HG/T 5070-2016 Section 6.2 Test Condition:

Fluorescent lamp, visual inspection of appearance Measure the irregularity of the end face with a steel ruler

Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result
End surface irregularity	<5 mm
End face scratch, oil stain and impurity	No
Bubble	No
Surface scratches, folds, oil stains and impurities	No
Flatness	No obvious wavy loose edges

Note: Test specimens were cut from the sample.

Original Sample Photo:



5. Thickness Deviation Test:

Sample Description: Transparent film

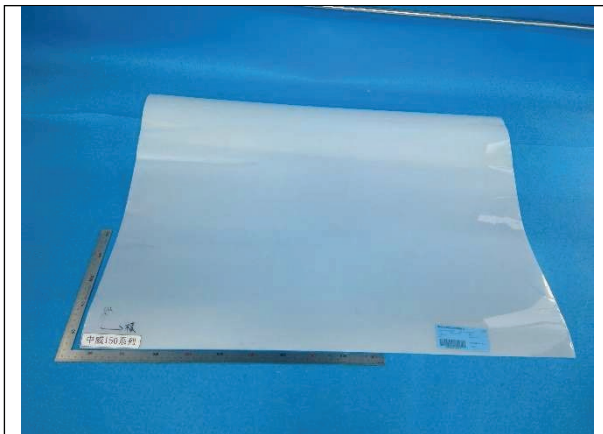
Test Method: HG/T 5070-2016 Section 6.3.2 & 6672-2001 Test Condition:

Diameter of Presser foot: 10 mm Load: 0.8 N

Nominal Thickness: 0.187 mm (Provided by client) Lab Environmental Condition: (23±2) , (50±5)%RH Test Result:

Test Item	Test Result
Thickness	0.183 mm
Thickness Deviation	-1.6 % -3.2 %
Average Thickness Deviation	-2.1 %

Original Sample Photo:



6.Discoloration Resistance Test:
Test Method: HG/T 3689-2014, Method A; 24 h

Test item	Result
Discoloration Resistance	4-5 Grade

Original Sample Photo:



***** End of report *****



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