



Scheda tecnica

## IGP-DURA®*pol* 681TD-H1

Matt, low-temperature powder coating with a fine texture, ideal for interior and exterior applications.



### Proprietà

- extra opaco
- raggrinzato
- Metallizzato
- Industrial outdoor quality
- sovraverniciabile



### Proprietà delle polveri

Granulometria:	< 100 µm
Corpi solidi:	> 99 %
Densità:	1.3 kg/l-1.6 kg/l
Stoccaggio:	min. 24 months a ≤ 25 °C in an unopened original container

app.print.technical\_data\_sheet.powder\_properties\_and\_conditions | [RAL Metallics and blends](#) and metallic colors on request



### Applicazione

#### Pretrattamento

The substrate must be free from oil, grease and oxidation products. The pretreatment depends on the type of substrate and the corrosion protection to be achieved. We recommend the following pretreatments:

#### Alluminio

- Chromating according to DIN EN 12487
- Pre-anodization
- Chrome-free pretreatment according to GSB International and QUALICOAT specifications

#### Acciaio

- Zinc phosphating

#### Acciaio zincato

- Zinc phosphating
- Chrome (III) passivation
- Chromating according to DIN EN 12487

For improved corrosion protection for applications on steel / galvanised steel, the use of corrosion protection primer IGP-KORROPRIMER 18 is recommended.

The suitability of the pretreatment method used is generally to be tested by the coater in advance with appropriate test methods. The minimum requirement for aluminium substrates / galvanised steel components is to carry out a boiling water test with a subsequent cross-cut adhesion and tape test. We refer to the guidelines of the GSB International, Qualicoat and Qualisteelcoat certifications. For further information: see also our special leaflet on pre-treatment (IGP-TI 100).

### Impianti di verniciatura

All conventional electrostatic systems with corona charging.

For the construction and operation of powder coating plants, the following regulations must be complied with: ATEX RL 2014/34/EU, EN 50177, DIN EN 16985.

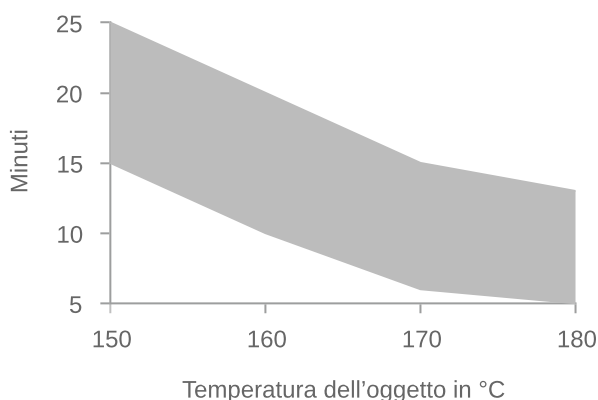
### Spessore del film consigliato

60 µm - 80 µm

A homogeneous coating result with textured coatings or article-and color specific differences in hiding power may require higher coating thicknesses. The corresponding processing guidelines must be observed.

For a pre-calculation of the required powder coating quantity, the necessary coating thickness must be determined for each article.

### Condizioni di cottura



T oggetto	t min	t max
150 °C	15 minutes	25 minutes
<b>160 °C</b>	<b>10 minutes</b>	<b>20 minutes</b>
170 °C	6 minutes	15 minutes
180 °C	5 minutes	13 minutes

Per accertare le condizioni di cottura migliori si consiglia, in ogni caso, di effettuare prove pratiche con il rispettivo oggetto e forno di polimerizzazione.

### app.print.technical\_data\_sheet.processing.application\_instruction

IGP processing instruction for metallic effects VR203 must be observed.

### Recupero

Small portions of recovered powder can be added, automatically if possible, to the fresh powder. Important: Keep overspray to an absolute minimum. Processing instruction VR214 & VR201.1 must be observed.



## Caratteristiche del film

### Testato per

Substrati: Aluminum (AlMg1), 0.8mm, chromated  
Spessore: 60 µm - 80 µm  
Temperatura dell'oggetto: 160 °C, 10 min.

## Prove meccaniche

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Cross-cut adhesion test	Gt 0	DIN EN ISO 2409 2020-12
Mandrel bending test	≤ 5 mm	DIN EN ISO 1519 2011
Impact test / Tape test	≥ 10 inchp.	ASTM D 2794 1993
Erichsen cupping	≥ 5 mm	DIN EN ISO 1520 2007-11
Buchholz hardness	≥ 80	DIN EN ISO 2815 2003-10

## Test di resistenza agli agenti atmosferici

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QUV-SE-B-313, 200h	> 50 % Brillantezza residua	DIN EN ISO 16474-3 2014-03
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## Verifiche della resistenza a corrosione

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Condensation water test, 1000h	No infiltration, no blisters	DIN EN ISO 6270-2 2018-04
Natural salt spray test, 1000h	No infiltration, no blisters	DIN EN ISO 9227 2017-07

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## Altre informazioni

### Imballaggio

20 kg cardboard box with inserted antistatic PE liner

500 kg cardboard container with 25 antistatic PE-liners each 20kg

### Protezione delle superfici verniciate

Coated parts should be packed after cooling with suitable materials without plasticizers. They should be stored protected from the weather to avoid the formation of condensation and thus water spots on the coating.

### Rimozione e smaltimento della pittura

After use, coated goods should be supplied to the normal recycling process. The disposal methods for sludges or residual powders must be observed in accordance with the local official provisions whilst taking Waste Code "080201 Coating Powder Wastes" in accordance with the European Waste Catalogue into consideration.

Le presenti informazioni di natura tecnica relative all'utilizzo sono fornite sulla base delle conoscenze attuali. Tuttavia devono essere considerate come indicazioni non vincolanti che non esonerano dall'effettuazione di controlli autonomi. Utilizzo, destinazione e applicazione di prodotti hanno luogo senza possibilità di controllo da parte nostra e, pertanto, soggiacciono esclusivamente alla vostra responsabilità.

Prima dell'applicazione consultare la scheda di sicurezza. Scheda di sicurezza specifica per l'articolo e misure più approfondite sulla gestione del rischio alla pagina: [igp-powder.com](http://igp-powder.com)