

# EP-6103

Version: August 2015

**POWDER COATING  
RESINS**

**PU**

**PE : HARDENER = 80 : 20**

## Description

EP-6103 is a saturated hydroxylated polyester resin designed for 80/20 polyurethane powders to be cured at 200°C. Coatings based on EP-6103 exhibit good flow and good mechanical properties, chemical and weathering resistance. It also can be used in clearcoat.

## Specification

Item	Limits
Hydroxyl value (mg KOH/g)	45 - 55
Viscosity @ 200 °C, (mPa.s)	5000 - 6000
Color,b value	Max 10
Acid value (mg KOH/g)	Max 8

## Other

Item	Typical value
Glass transition temperature (°C)	57

## Storage conditions

The resin in its original unopened bags is stable for more than 1 year, stored in a dry place at temperature below 30°C. Avoid direct sunlight.

## Delivery form

Granules. White opaque polyethylene bags of 25kg. One ton per pallet .

## Starting Formulation

Component	Weight (g)
EP-6103	480
Vestgon B 1530	120
TiO <sub>2</sub>	385
Flow agent	10
Benzoin	5

## Application/Extrusion Conditions

Extrusion	
Extruder	Twin screw
Speed	250 rpm
1 <sup>st</sup> Zone Temperature	100 °C
2 <sup>nd</sup> Zone Temperature	120 °C
Application	
Application	70 micrometer film on 0.5 mm chromated Al panel
Spray Gun	Output voltage: 70 kV
Curing	10 min @ 200° C metal temperature

## Coating Properties

Test Items	Result
Film thickness (microns)	60-80
Gloss @ 60° (%)	90
Cupping test (mm)	7
Direct impact (kg.cm )	80
Reverse impact (kg.cm )	80
Adhesion (grade)	0

## System Properties

- ❖ Very good weathering resistance
- ❖ Very good mechanical properties
- ❖ Very good chemical resistance
- ❖ Excellent flow
- ❖ No blooming

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