



Technical Data – Powder Coating Metal

Powder Coating Properties - Metal:

60° Gloss	ASTM D 523	10 – 90
Film Build	ASTM D 4138, Method A	1.5 – 2.5 mils
Adhesion	ASTM D 3359, Method B, Cross hatch	4B – 95% adhesion
Pencil Hardness	ASTM D 3363 Scratch Resistance	H – 4H
MEK Resistance	PCI Test Method # 8	No softening after 50 double rubs
Abrasion Resistance	ASTM D 4060, CS-17 Wheel 500g, 500 cycles	25 – 35 mg material loss
Impact Resistance	ASTM D 2794 Direct	160 in/lbs no cracking
Flexibility	ASTM D 552, Method A	< 1/2"
Salt Spray Resistance	ASTM B 117, CRS pretreatment Bonderite 1000	1000 hours

Chemical Resistance Test – 24 Hour Exposure:

Engine oil	No effect
Gearbox oil	No effect
Hydraulic oil	No effect
Brake Fluid	Slight gloss loss
Antifreeze	No effect
Cold cleaner	No effect
Inert cleaner	No effect
E95	No effect
Unleaded gas	Slight/moderate gloss loss
Diesel fuel	No effect
Battery fluid	No effect

NB09-12C16 S-1, EVALUATION OF ZR12C16R1 (12/10/15)

Available Colors:

The Powder Manufacturer can develop a custom powder to match any RAL, Pantone (PMS), laminate, liquid paint or other sample the customer may have, including metallic and speckle finishes. Their coating, formulation and testing laboratory allows them to develop and validate coatings for customer specific product application and performance requirements.