

Painel Automotivo, 2015

Rio Claro Plant

Palestrante: Everton Sterzo

suc·cess [sək'ses]

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Rio Claro Plant

Plant Size: 43.665,29 m²
 Built area: 8.821,13 m²

Location: Meridian, 55

Distrito Industrial

Rio Claro – SP, Brasil

13505-610

Inaugurated Date: 1997

Associates: 65





A.Schulman Inc. in the World



A. Schulman operate facilities in the Americas, Europe and Asia-Pacific regions. Its plants, offices and technical centers are strategically located to serve customer needs in markets throughout the world.







Rio Claro Plant / Internal Area















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Products and Process















End Market







Engineered Composites



What We Offer?

- > SMC, BMC, Pultrusion, Injection and Compression Molding
- > Extensive Underwriters Laboratories Listings
- ➤ FDA/EU Food Contact Compliant
- ➤ RoHS Compliant Options in All Categories
- Functional Filler Technologies
- ➤ Impact Modification, Thermal and UV Stabilization
- Fully Equipped Pilot Plant Facilities and Analytical/Physical Testing Labs
- ➤ Mold and Part Design assistance



What is a Thermoset?

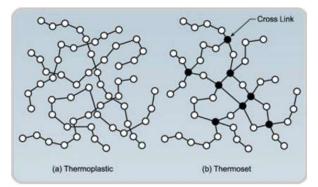
* A. Schulman

A thermosetting polymer is a prepolymer in a soft solid or viscous state that changes irreversibly into an infusible, insoluble polymer network by curing.



A thermoplastic polymer is a polymer that becomes pliable or moldable above a specific temperature, and returns to a solid state upon cooling. Most thermoplastics have a high molecular weight, whose chains associate through intermolecular forces; this property allows thermoplastics to be remolded because the intermolecular interactions spontaneously reform upon cooling. In this way, thermoplastics differ from thermosetting polymers, which form irreversible chemical bonds during the curing process.

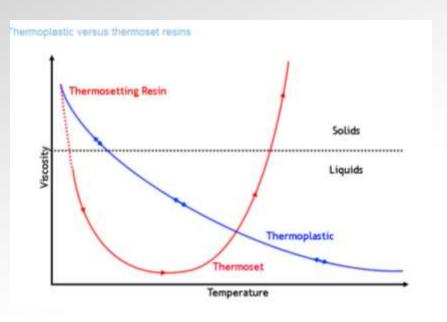


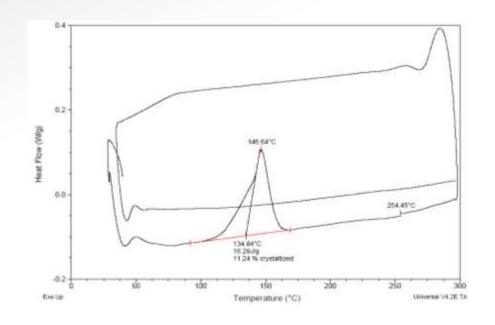




Thermoset x Thermoplastics





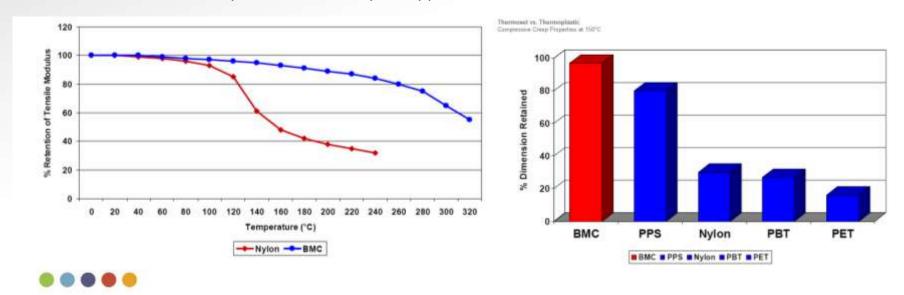




What are the Advantages of Thermosets?



- ➤ High Heat Resistance
- ➤ Dimensional Stability
- ➤ Naturally Flame Retardant
- **≻**Low Smoke Emission
- > Excellent Chemical Resistance
- ➤ Excellent Creep Resistance Little to No Creep
- ➤ Tailored Glass Transition Temperatures
- Formulations which are Easily Customizable to your Application



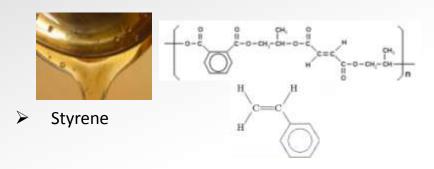
Material Science



Composition

Polymer Matrix

Unsaturated Polyester, Vinyl Ester or Epoxy Resin



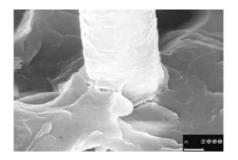
- ► Initiators ROOR Calor 2RO*
- Pigments, Mold Release, Additives, etc

Reinforcements

Fillers



Glass Fiber and Carbon fibers



Thermosets Molding Compounds







BMC







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WHAT IS BMC?



- Bulk Molding Compound (or Composite)
- Polyester resin, glass-fiber and fillers reinforced thermoset molding compound
- Used on hot-tool press molding
- Specifically formulated for each end-use application
- Contains 10 % to 20 % chopped strand
- Can be injection, compression or transfer













BMC (Headlamps)







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Electrical Parts



suc·cess [sak'ses]







Electrical Parts



suc·cess [sak'ses]

















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WHAT IS SMC?

- Sheet Molding Compound (or Composite)
- Chemically-thickened, glass-fiber/Carbon Fiberreinforced thermoset molding compound
- Used on hot-tool press molding
- Specifically formulated for each end-use application
- Contains ½ to 2 inch chopped glass ou Carbon
 Fiber roving
- Can be compression







SMC









COMPRESSION

















Grill







Grill



suc·cess [sək'ses]















Ford Troller - SMC Structural











Ford Troller - SMC Class A













Reinforcements - RENAULT X70 (Renault/ Faurecia)

















PULTRUSION





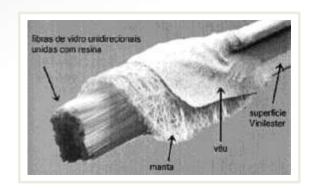
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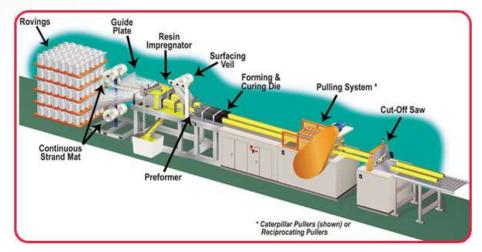
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WHAT IS PULTRUSION?

Pultrusion is a manufacturing process for producing continuous lengths of reinforced polymer structural shapes with constant cross-sections. Raw materials are a liquid resin mixture (containing resin, fillers and specialized additives) and flexible textile reinforcing fibers.









Pultrusion Applications







CNH (CASE) - Machine to harvest coffee

Certificates



ISO/ TS 16949:2009 ISO 9001:2008





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Certificate ISO 140001:2004





THE INTERNATIONAL CERTIFICATION NETWORK

CERTIFICATE

DG8 GrotH Deutsche Geseischaft zur Zerftgerung von Menagementsystemen hereby certify that the company

BULK MOLDING COMPOUNDS DO BRASIL INDÚSTRIA DE PLÁSTICOS REFORÇADOS LTDA.

Rus Meridian 55 - Datrito Industrial 13505-610 - Rio Claro - SP Brazil

has implemented and maintains an Environmental Management System

Scope:

Manufacture of fatorcated plastic parts and compounds for eutomotive and instastrial application

Through an audit, documented in a report, if was serfied that the management system fulfills the requirements of the following standard:

ISO 14001: 2004 + Cor 1: 2009

Date of certification 2012-05-28

Valid ords 2015-09-27

Registration Number: DE-460024 UM







KONST Plettric

AEMO Court MANG Contraction From AND Contraction Design AND Rector AFCER Potage CCC Oppus Collection Contraction C

6294 is represented in the USA by AFNOR Confliction. USQ, DUD Protong Great and HEM for.

* The fiel of EDRog pathway is noted at the time of lance of this confliction, significant thermalism is available under once aged conflictions con-



L.A C.A. /TOP OF MIND











Awards (BMC/SMC and Molded Parts)



L.A C.A. /TOP OF MIND



2014



Awards (BMC/SMC and Molded Parts)

2013



Awards (BMC/SMC and Molded Parts)



L.A C.A. /TOP OF MIND



2012



Awards (BMC/SMC)

2011



Award (BMC)



Arteb Awards





"Best Supplier in 2013"





"Best Supplier in 2012"

Singer Award







Valeo Awards





Valeo Sistemas Automotivos Ltda.

tem a honra de conferir o Prêmio Melhor Fornecedor do Ano edição 2008
à

MERIDIAN DO BRASIL LTDA

"Best supplier in 2008" (Valeo Automotive Ligting)

"Best supplier in 2008" (Valeo Automotive Systems)

