

69 YOUR METAL-TO-PLASTIC CHOICE

Our technically accomplished team will help you slash the weight and cost of your new or existing application.

BENEFITS OF CHOOSING PLASTIC OVER METAL:

· Cost reduction · Weight reduction · Design freedom · Secondary operation elimination



Stanyl® nylon 4/6

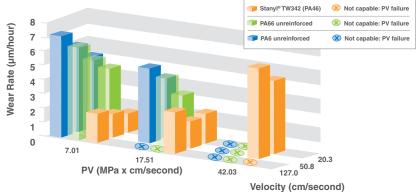
KEY ATTRIBUTES:

- Chemical resistance
- High HDT
- · Lubricity

STRENGTHS:

- Flowability
- Hot-water moldable
- · Outstanding wear and friction performance

The chart below demonstrates the superior wear performance of Stanyl® polyamide 4/6, which is particularly attractive at high speeds at which other nylons fail.



Stanvl® TW200F8

(40 percent glass-fiber-reinforced PA46)

Why we recommend Stanyl®TW200F8:

- · High stiffness at high temperatures
- Low wear
- · Weight and noise reduction

APPLICATION REQUIREMENTS:

- · Diesel engines
- · High stiffness at high temperatures · PA66
- · High toughness
- · Good oil resistance at high temperatures
- Low wear, good fatigue
- Safety, durability
- · Weight and noise reduction

COMPETITION:

- Metal



ForTii™ Nylon 4T® nylon 4/6

KEY ATTRIBUTES:

- · Dielectric properties
- Dimensional stability CLTE
- · Very high HDT

STRENGTHS:

- · Blister resistance
- · Chemical and oil resistance
- Isotropic CLTE

Why we recommend ForTii[™] Nylon 4T[®]:

- · Components for reflow soldering
- Low moisture uptake
- Weight reduction

APPLICATION REQUIREMENTS:

- Better knitline strength than LCP
- Blister resistance
- Dimensional stability low warpage and low coefficient of linear thermal expansion (CLTE) below and above T_q .
- Good resistance to salts that attack PA6 and PA66
- High heat capability (581°F DTUL)

COMPETITION:

- LCP
- PEI
- PPA
- PPS





Leona® partially aromatic nylon 6/6

KEY ATTRIBUTES:

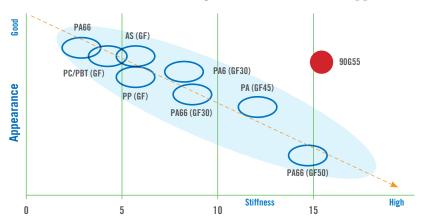
- Surface appearance
- Weatherability

STRENGTHS:

- High stiffness
- · Paintability

Stiffness and Appearance

Leona® 90G: The resin with both high stiffness and excellent appearance



Industry leaders call on Chase Plastics for engineered resins to replace metal without sacrificing performance or quality.

Leona® 90G50 partially aromatic nylon 6/6

(50 percent glass-fiber-reinforced)

Why we recommend Leona® 90G50:

- Cost savings
- · Parts integration
- Strength
- · Surface appearance
- Weight reduction

APPLICATION REQUIREMENTS:

- Colorability
- · High toughness
- · Class-A surface finish · Stiffness throughout a wide range of temperatures
 - Weatherability

COMPETITION:

- Metal die-cast
- PA6
- PA66



Painted cover of ABS and inside bracket of 7amak

Unpainted one-piece stay of Leona® 90G60 B3374



Painted ABS and metal die cast

Unpainted one-piece stay and housing of Leona® 90G60 B3374





Why we recommend Reny® MXD6:

- · Low mold shrinkage
- Low warpage

APPLICATION REQUIREMENTS:

- Good strength and stiffness retention at higher temperatures and wetter environments
- Highly resistant to oils and organic solvents and fuels
- Less moisture uptake than PA6 and PA66; less growth with moisture and better dimensional stability, especially in high-humidity environments
- Very good surface capability with high filler loadings resin-rich surface

COMPETITION:

- · Die-cast metals
- PA6
- PA66



Ryton® PPS

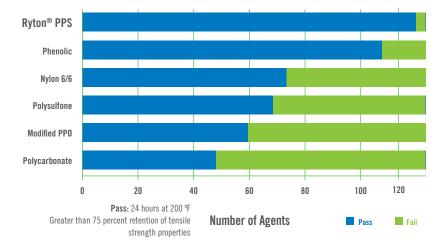
KEY ATTRIBUTES:

- · Chemical resistance
- Dimensional stability
- High HDT

STRENGTHS:

- · Precision molding
- · Temperature resistance

Chemical Resistance of Plastics



Ryton® R4-02XT

(40 percent glass-fiber-reinforced improved ductility PPS)

Why we recommend Ryton® R4-02XT:

- · Chemical resistance
- · Thermal stability

APPLICATION REQUIREMENTS:

- · High stiffness at elevated temperatures
- · Low dimensional change under varied conditions
- Resistance to several chemicals
- Structural integrity

COMPETITION:

- Aluminum
- Die-cast metal





Solvay Specialty Polymers Omnix® 4050 HPPA

KEY ATTRIBUTES:

- · Crystalizes sooner than other aromatic nylons for faster cycle times
- · Exceptional surface appearance
- · High-performance semi-aromatic nylon base
- · Low and slow moisture uptake provides excellent dimensional stability

STRENGTHS:

- · High stiffness
- · Hot-water and hot-oil moldable
- Low flash

Why we recommend Omnix® 4050 HPPA:

- Excellent creep resistance
- Good impact

6467 Waldon Center Drive, Clarkston, MI 48346

248.620.2120 | orders 800.232.4273 | fax 248.620.3192

ChasePlastics.com

The marks identified herein are registered trademarks of their respective owners.