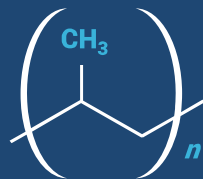




THE EARTH IS FLAT

No, it's not.

**But the world of rotational molding
has been under this belief**



POLYPROPYLENE

benefits of using

RMPP141

for rotomolding



POLYPROPYLENE FOR ROTATIONAL MOLDING

RMPP141

Black & Natural Powder



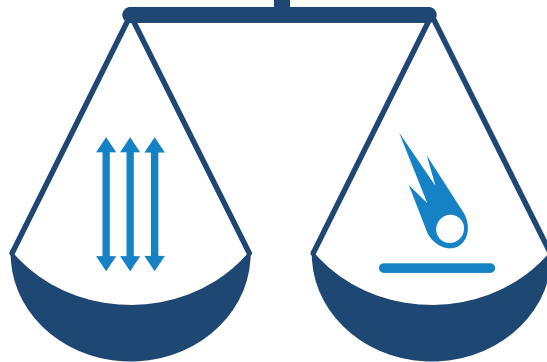
**AMBIENT
GRINDING**
in-house
rework



**NO LIQUID
NITROGEN
REQUIRED**

BALANCING STIFFNESS WITH TOUGHNESS

**HIGH
STIFFNESS**
(lacks flexibility)



**HIGH
IMPACT**
(lacks stiffness)

(RMPP141 BALANCES BOTH)



**TENSILE
MODULUS**

200,000psi



HDT

240°F
@ 66psi



**ARM
IMPACT**

23 J/mm at 73°F
15 J/mm at 32°F
1/4" Plaque



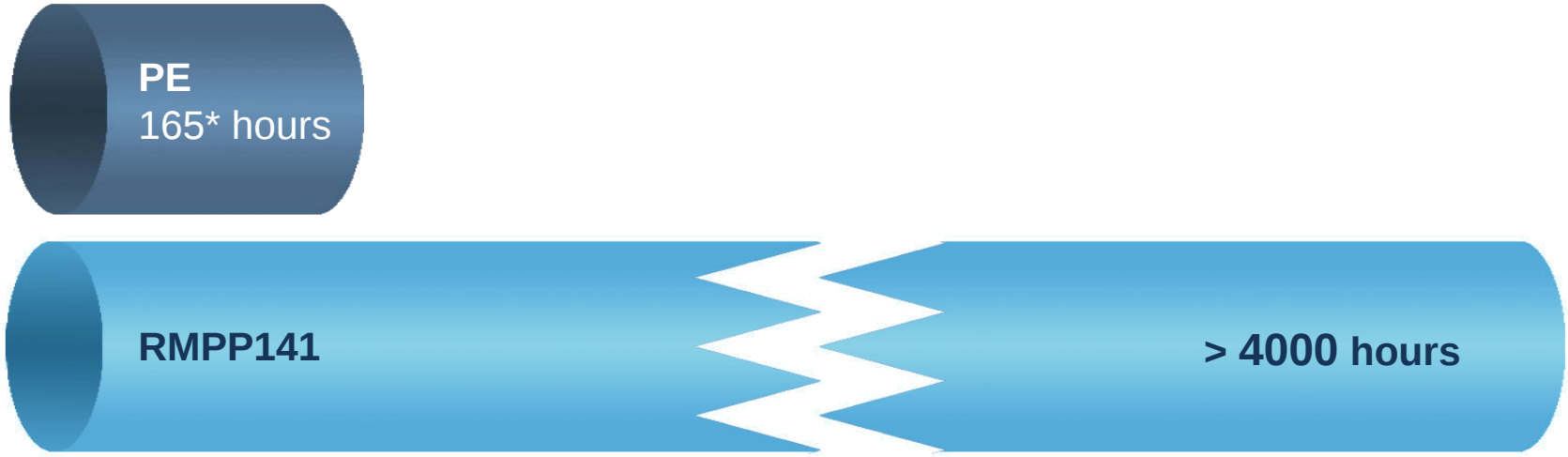
FNCT

300+ hours
@ 122°F/5 Mpa

**ALL-ROUND
MECHANICAL PERFORMANCE**

PIPE PRESSURE TEST TO ISO 21138

Minimum Standard* Requirement of
165 hours at 140°F 3.9 MPa



The diagram illustrates the components of a pipe pressure test. At the top, a dark blue curved banner contains the title 'PIPE PRESSURE TEST TO ISO 21138'. Below this, a light blue curved banner states the 'Minimum Standard* Requirement of 165 hours at 140°F 3.9 MPa'. The main part of the diagram shows two horizontal pipe sections. The top section is a short, dark blue pipe labeled 'PE 165* hours'. The bottom section is a longer, light blue pipe labeled 'RMPP141' on the left and '> 4000 hours' on the right. The two sections of the bottom pipe are connected by a jagged, white, zig-zag line, indicating a break or a continuation of the pipe.

PE
165* hours

RMPP141

> 4000 hours



INFRASTRUCTURE UNDERGROUND PRODUCTS

Manholes and tanks



INFRASTRUCTURE

Tanks, manholes and
underground products



Produced by
Floteks Turkey

LONG TERM CREEP (LOAD) STRENGTH

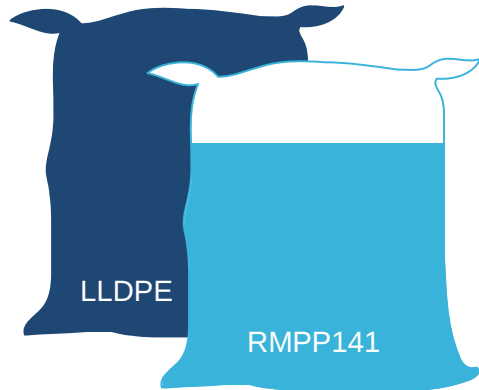
After 20* years, RMPP141 remains
SUPERIOR TO POLYETHYLENE



* Extrapolated data

RING STIFFNESS

% MATERIAL
USED



30%
Less material

SAME STIFFNESS



40" diameter
manhole riser

floteks

VACUUM TEST

MINUTES
UNDER
VACUUM
(0.1bar)

PE



500L Tank

RMPP141



PE

10min

RMPP141

60min

floteks



POLYPROPYLENE MANHOLES EASY INSTALLATION

Turkey

IPLEX 4-WAY RISER COUPLING

EZIpit425 x dn150

RMPP141 was chosen because of
an excellent balance of stiffness,
impact & creep resistance

Uses high compression rubber ring
joints requiring precise dimensions

**Roto molded to meet
injection molded tolerances**

Mold shrinkage 1.5%
ID 426 +/- 1mm



Manufactured by
Kiel Ind., Australia

RMPP141 CHEMICAL TANK

1850 gallon (7000 litre)
chemical tank, approximately
200kg and 10mm wall
thickness, made using
RMPP141 UV Natural



Manufactured by
Baroda Polyform, India

INDUSTRIAL HOPPERS & SILOS

The higher heat properties,
stiffness, hardness & scratch
resistance of **RMPP141**
make it ideal for hoppers
processing hot fill materials



Manufactured by
Consta Cool, India



AUTOMOTIVE

Excellent
Stiffness

Good
Impact

Excellent
FNCT/ESCR



High
HDT

No/Low
warpage

Good Abrasion
resistance

AUTOMOTIVE



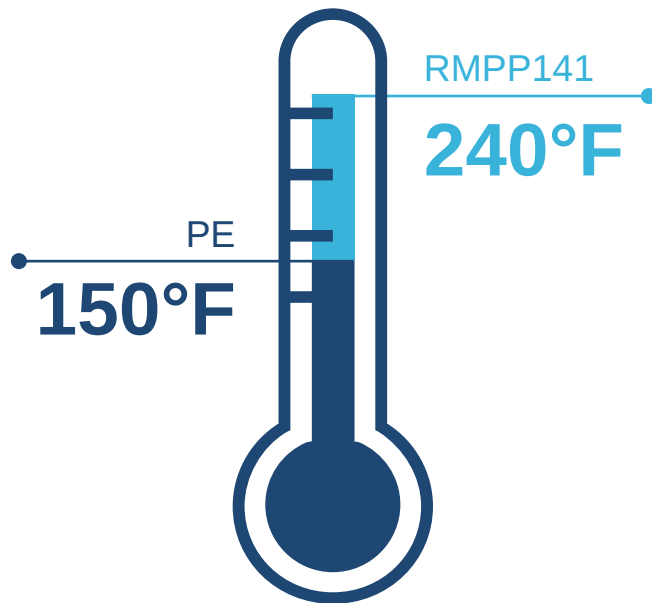
RMPP141 MOLDED AUTOMOTIVE DUCTS

Manufactured by
Kiel Ind., Australia

DIFFERENCE IN HDT

PE vs RMPP141

HDT at 66psi





FURNITURE & TRANSPORT VEHICLE PANELS



Persico 'Test Mold'

SUPERIOR GLOSS,
hardness, abrasion and
scratch resistance to PE



Manufactured by
Pun Pun, Thailand



TRANSPORT VEHICLE PANELS

Manufactured by
OK Play, India



CONCLUSION

Processes well:

- Fills ribs, corners and difficult areas
- Good sintering minimizes bubbles & pinholes
- This results in excellent inside and outside surface
- Ability to ambient grind rework

RMPP141 has
**OUTSTANDING
RESULTS**



Features:

- Elevated temperature applications – wet and dry
- Stiffness, creep, high load bearing & excellent chemical resistance
- High gloss, hardness & scratch resistance

POLYPROPYLENE

RMPP141

Contributing to the future
development of rotational molding

High quality and
superior performance

Available as ambient
ground powder

Available in
Black or Natural



Easy to process

Potential cost savings

**Opens new markets
not suited to PE**

DISTRIBUTOR FOR RMPP141
in the Americas is:



Contact

info@4roto.com
www.4roto.com



Expand your horizons in

ROTATIONAL MOLDING

by using RMPP141

Rotoplas

Chicago 2017