

# • RECYCLABLE MONO-PE STAND-UP POUCH •

## GROWING RECYCLABLE SOLUTIONS

ALPINE MDO WITH PATENTED TRIO SYSTEM

with



40  $\mu\text{m}$

PE-MDO, made out of **TOTAL Lumicene Supertough®** products:

Lumicene Supertough® 40ST05

Lumicene Supertough® 32ST05

Lumicene Supertough® 22ST05

60  $\mu\text{m}$

Sealing layer:

**A** | 90% Total Lumicene Supertough® 18ST05  
10% Total LDPE FE 8000

**B** | 90% Total Lumicene Supertough® 40ST05  
10% Total HDPE 2008 SN 60

**C** | 100% Total Lumicene Supertough® 18ST05

**D** | 90% Total Lumicene Supertough® 40ST05  
10% Total HDPE 2008 SN 60

**E** | 65% Total Lumicene Supertough® 16ST15  
35% Plastomer

Layer distribution (%) : 10 / 15 / 50 / 15 / 10



**COVERIS™**  
HIGH PERFORMANCE PACKAGING



**HOSOKAWA  
ALPINE**

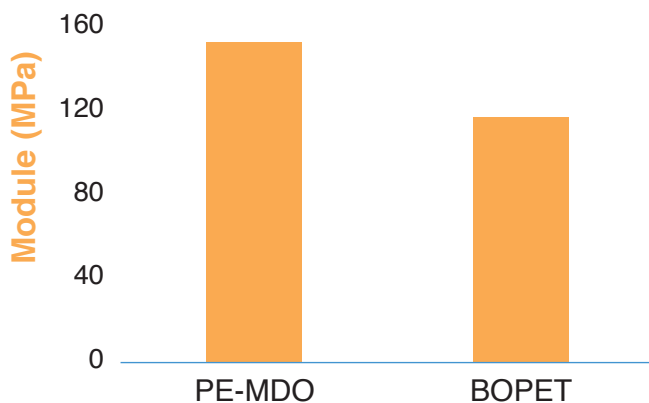
Learn more about the technology and materials  
[polymers.total.com](http://polymers.total.com) | [hosokawa-alpine.com](http://hosokawa-alpine.com)



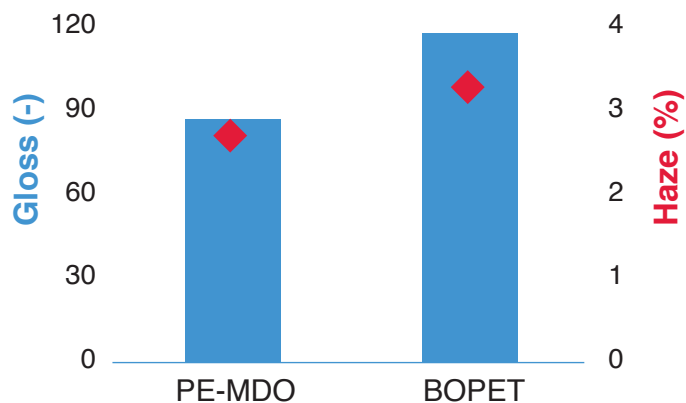
**TOTAL**  
COMMITTED TO BETTER ENERGY

# • RECYCLABLE MONO-PE STAND-UP POUCH •

### Tensile Modulus in machine direction



### Optics



## ALPINE MDO WITH PATENTED TRIO SYSTEM



### Key advantages:

- Superior optical properties for high quality printing
- Excellent rigidity for high speed conversion
- Applicable for reverse printing in flexo or rotogravure lines
- Good thermostability for efficient sealing
- Significant material savings due to patented TRIO system
- Easy opening



Learn more about the technology and materials  
[polymers.total.com](http://polymers.total.com) | [hosokawa-alpine.com](http://hosokawa-alpine.com)



**HOSOKAWA  
ALPINE**



**TOTAL**  
COMMITTED TO BETTER ENERGY