

CALPRENE H6180S

Providing better polypropylene and polyethylene upcycling solutions.



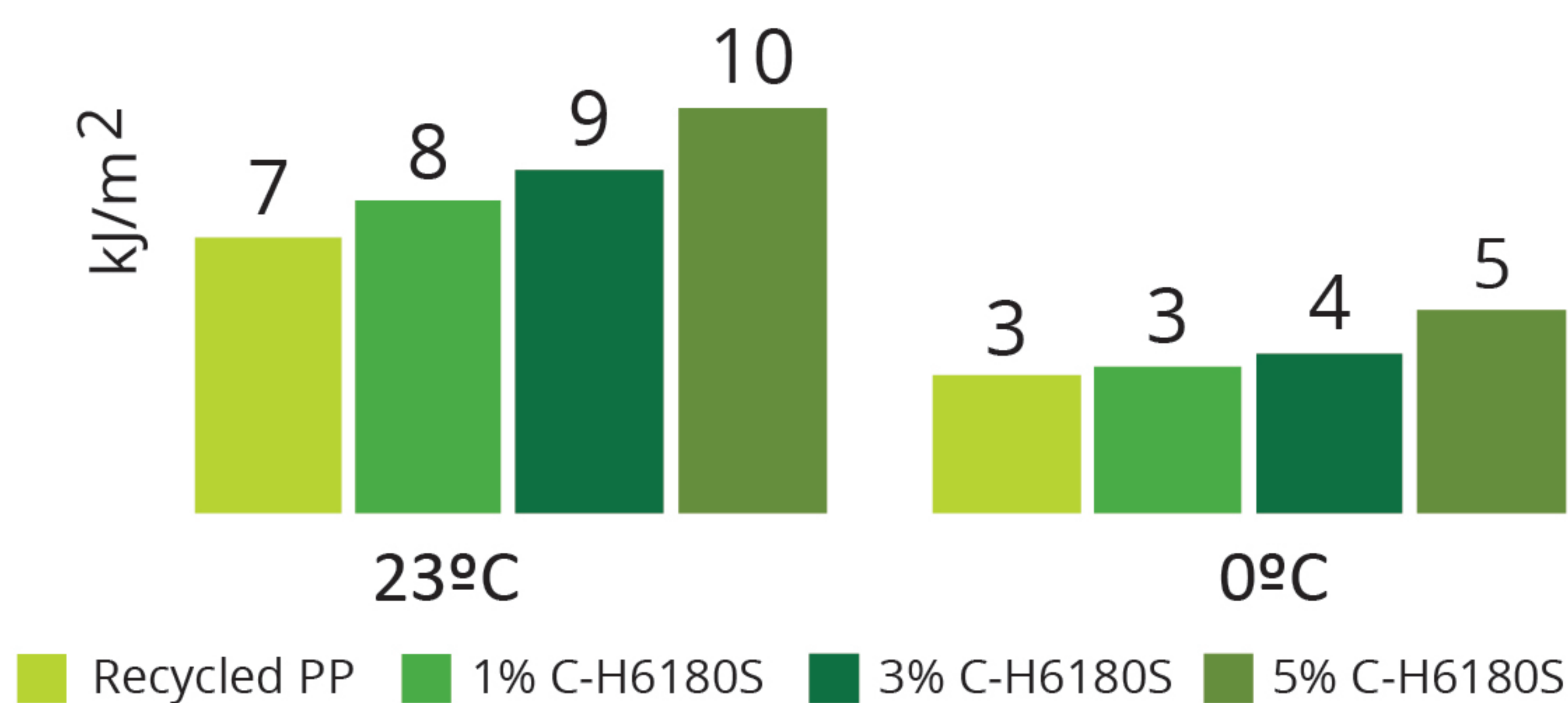
POLYPROPYLENE

The lack of recycled polypropylene with good mechanical properties makes it difficult to implement it as a common raw material.

Calprene H6180S is a SEBS copolymer that has low styrene content and a very high melt flow rate. These properties help achieve an extremely well compatibility rate with polypropylene.

Recycled PP compounds with **Calprene H6180S** shows a drastic improvement in impact resistance and other properties like the aging resistance.

CHARPY IMPACT RESISTANCE (NOTCHED)
(UNE 179-1:2011)

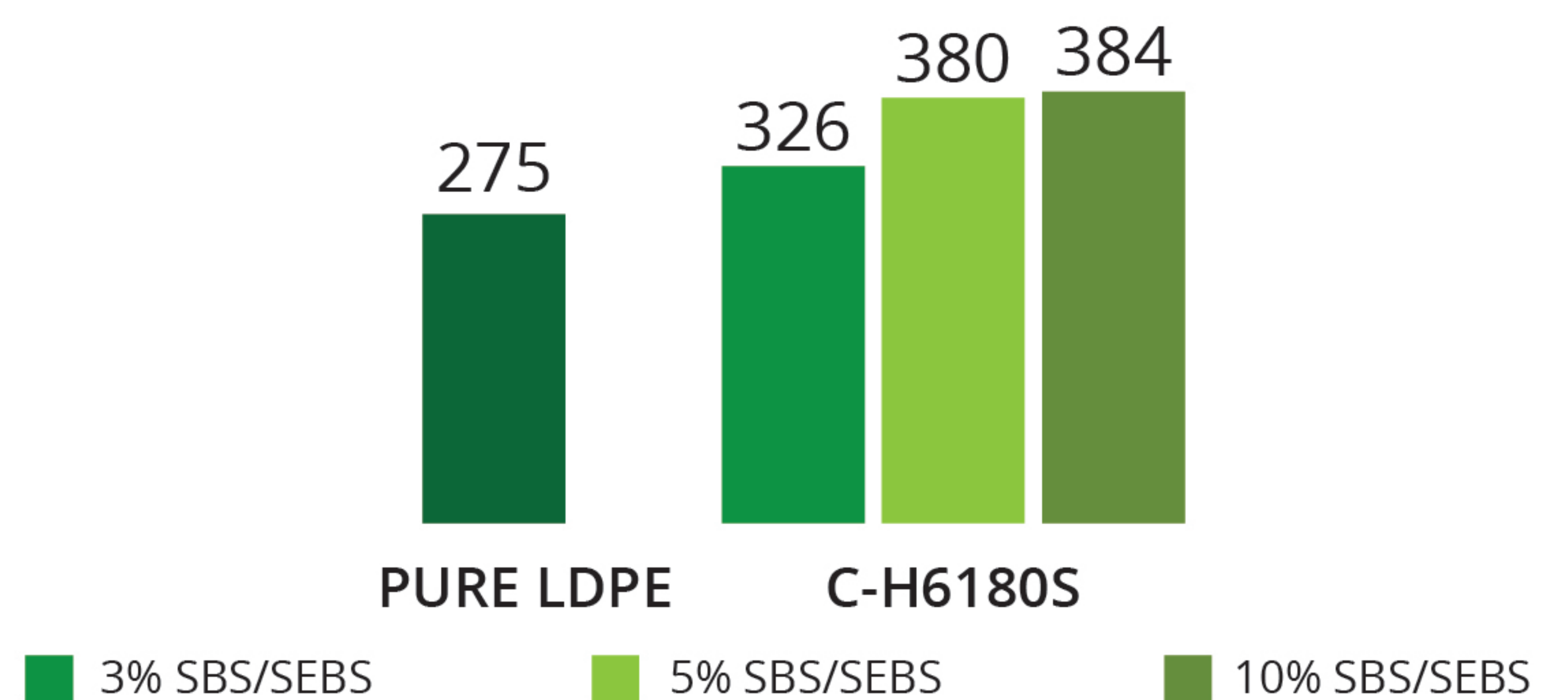


LOW DENSITY POLYETHYLENE

Every year thousands of tons of LDPE residue are generated. During the reprocessing phase the recycled LDPE loses part of its elasticity.

The use of **Calprene H6180S** improves properties such as elongation or tension set. This makes the material suitable for typical LDPE applications like multilayer films.

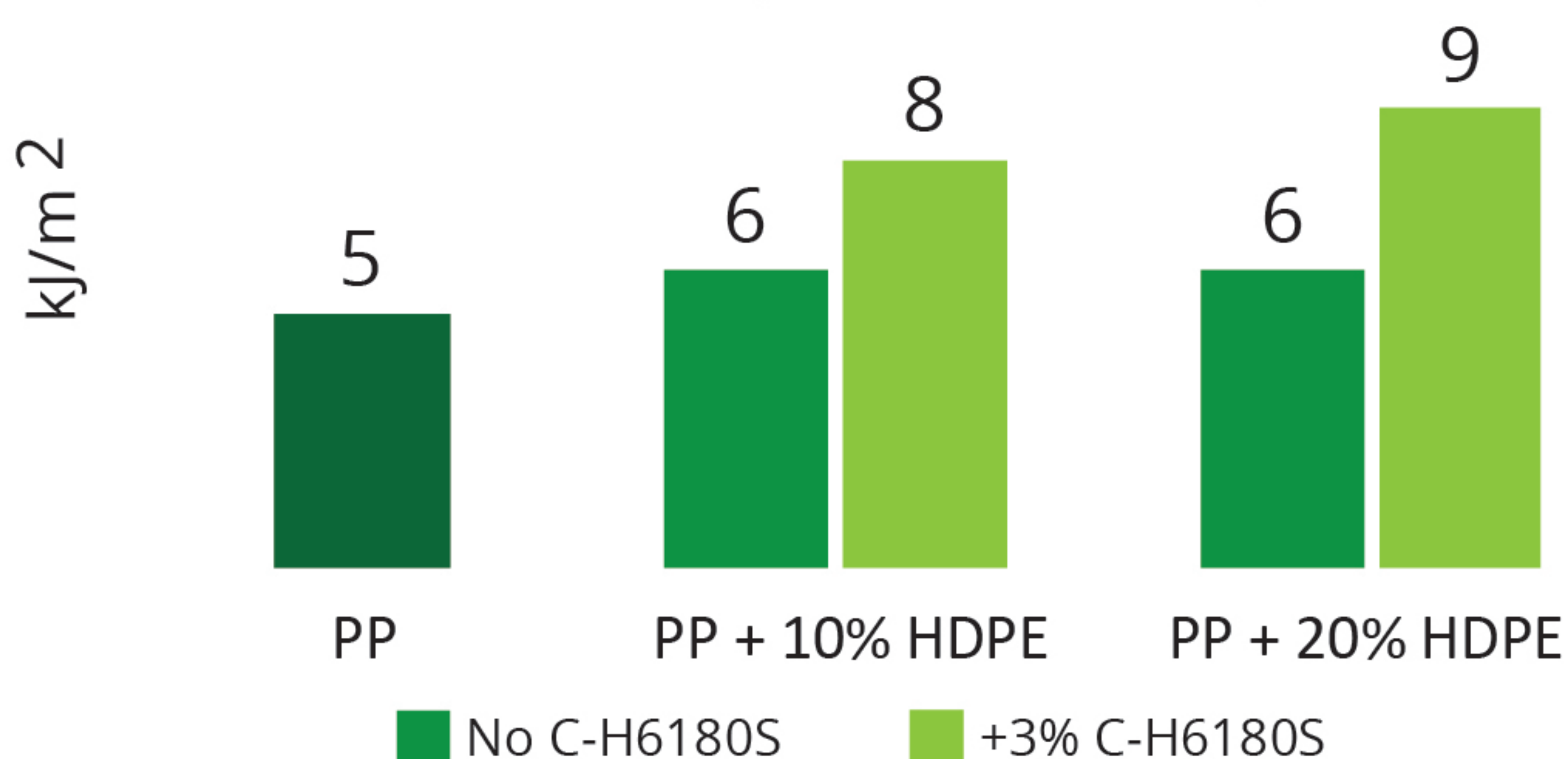
ELONGATION (%) (UNE EN ISO 527-2-12)



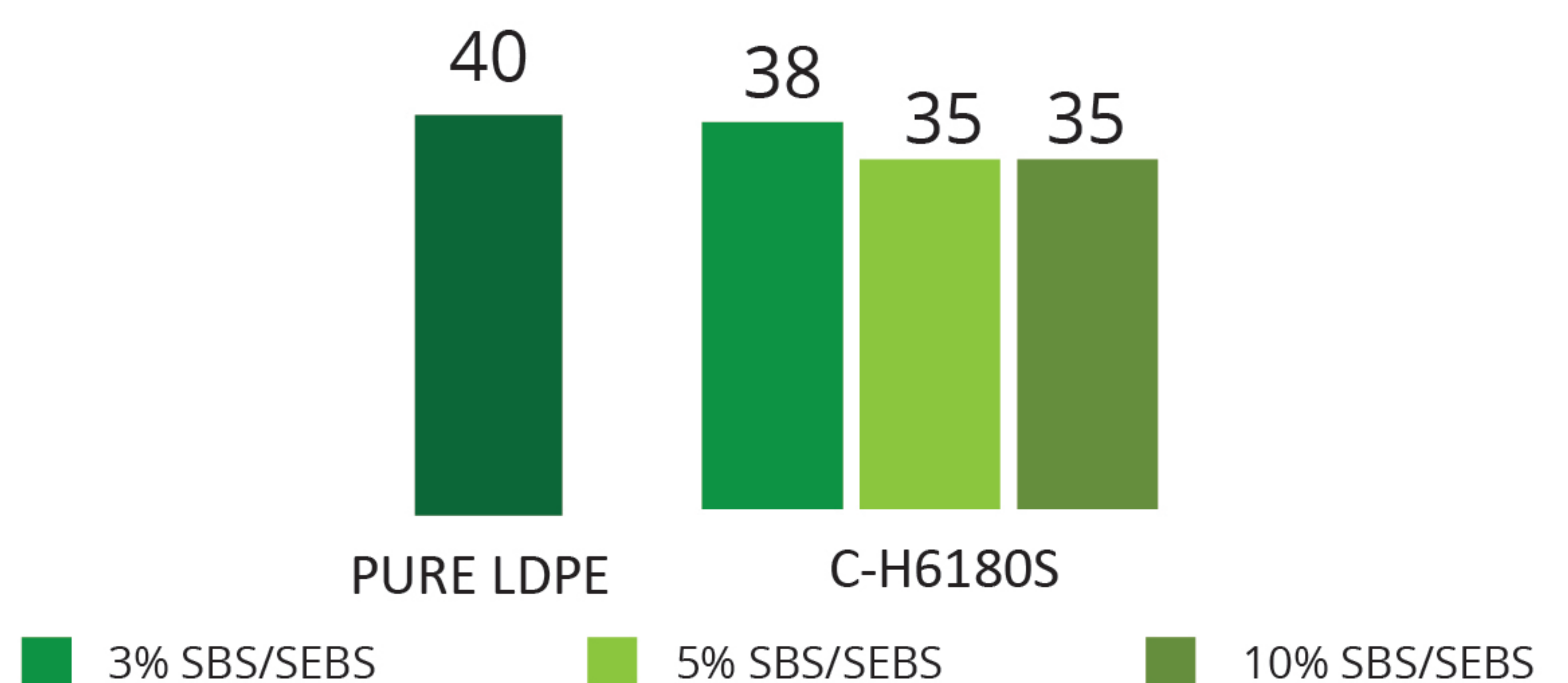
PP BLENDED WITH HDPE

The sorting of post-consumer residue is a difficult and heavy task. Commonly recycled polypropylene contains a percentage of polyethylene in it. Due to the use of **Calprene H6180S**, the final plastic becomes a high quality product even when it contains a contamination of 10% or 20% of polyethylene.

CHARPY IMPACT RESISTANCE (NOTCHED)
23°C - (UNE 179-1:2011)



TENSION SET (%) (UNE EN ISO 527-2-12)



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CALPRENE H6180S | H6215S | 718

Providing better polyethylene upcycling solutions

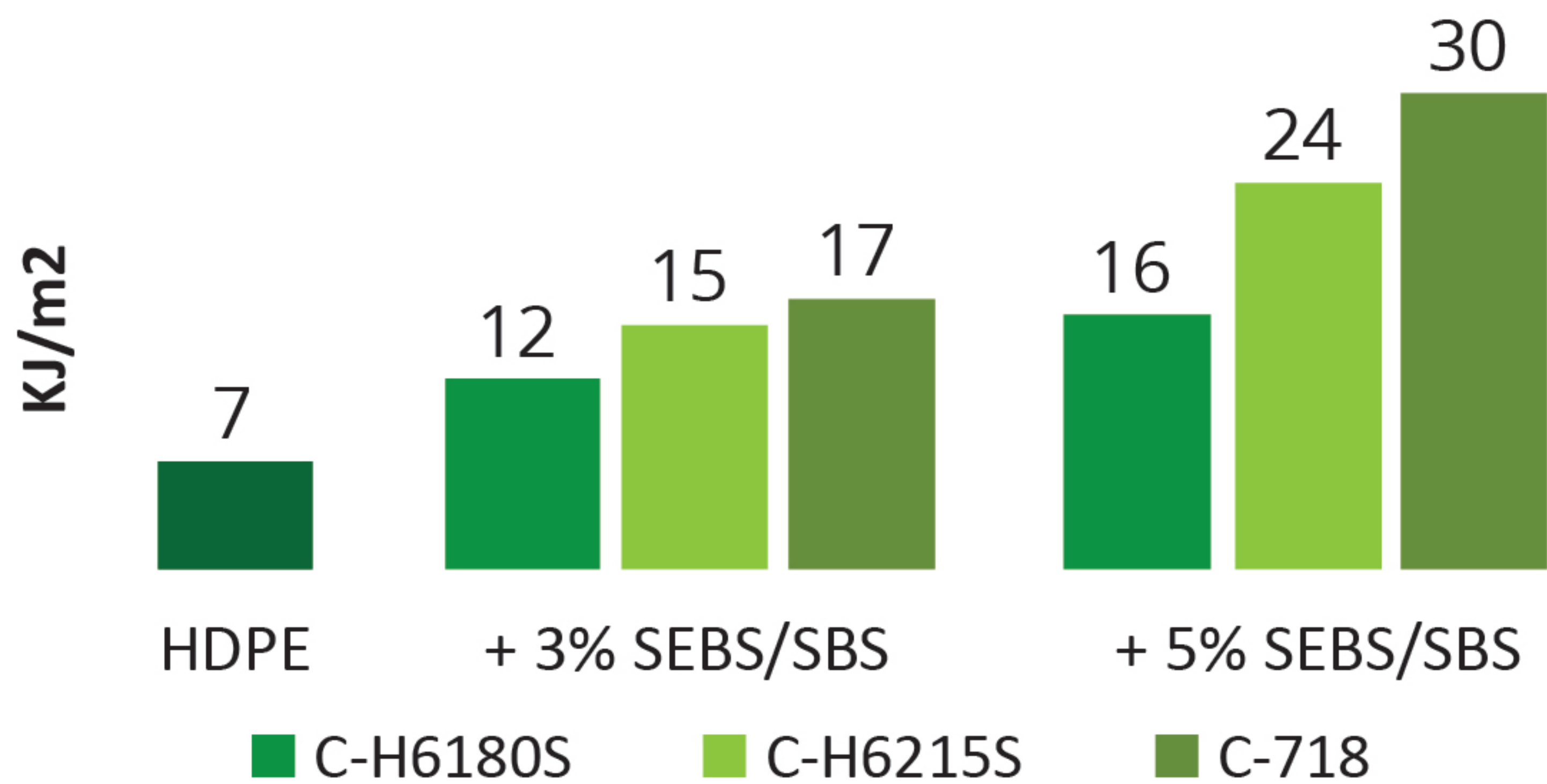


HIGH DENSITY POLYETHYLENE

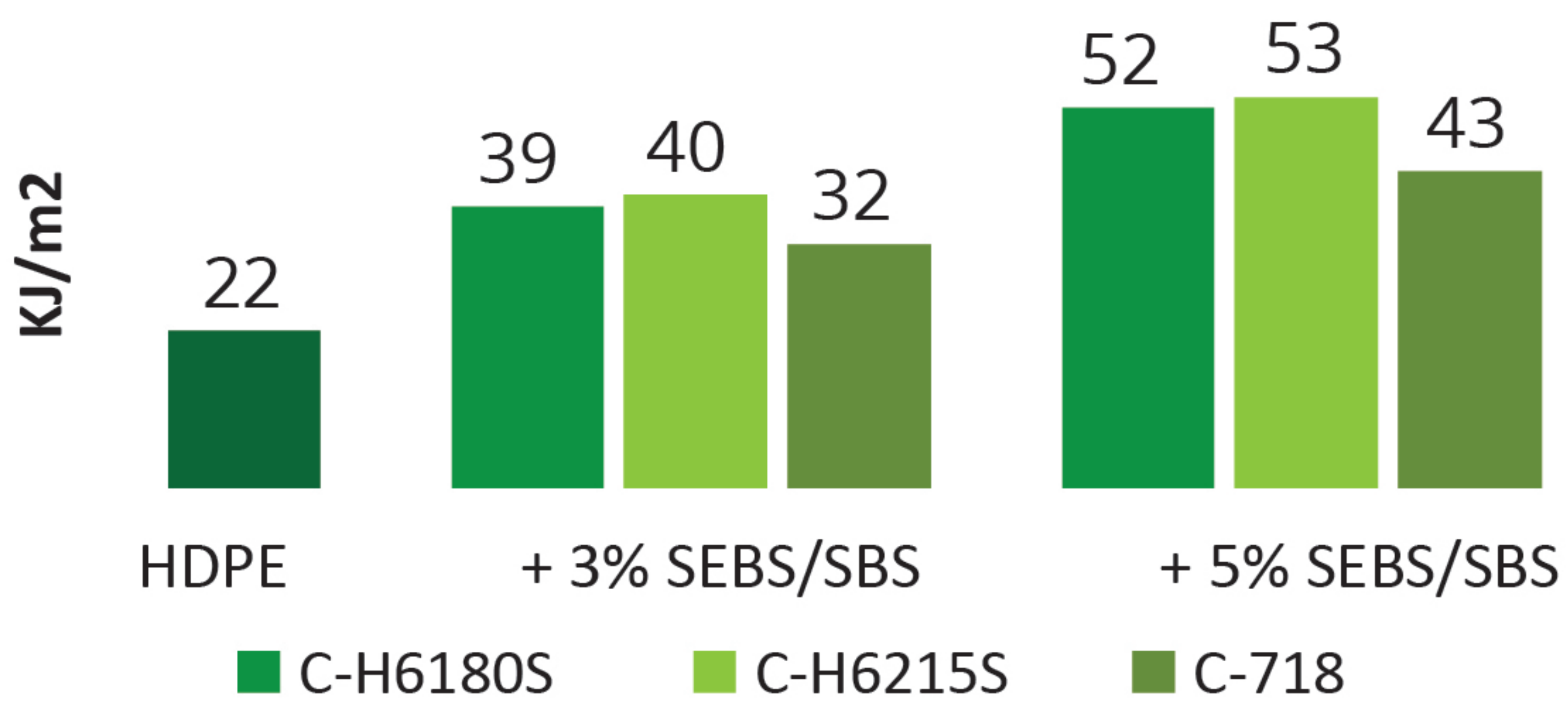
During the recycling process the mechanical properties of HDPE are strongly affected, thus becoming a more brittle material that is sometimes difficult to process.

The addition of Dynasol products such as *Calprene H6180S*, *Calprene H6215S* or *Calprene 718* in small doses shows an incredible improvement of different properties like impact resistance, processability, and stress cracking resistance.

CHARPY IMPACT RESISTANCE (NOTCHED) 0°C (UNE 179-1:2011)

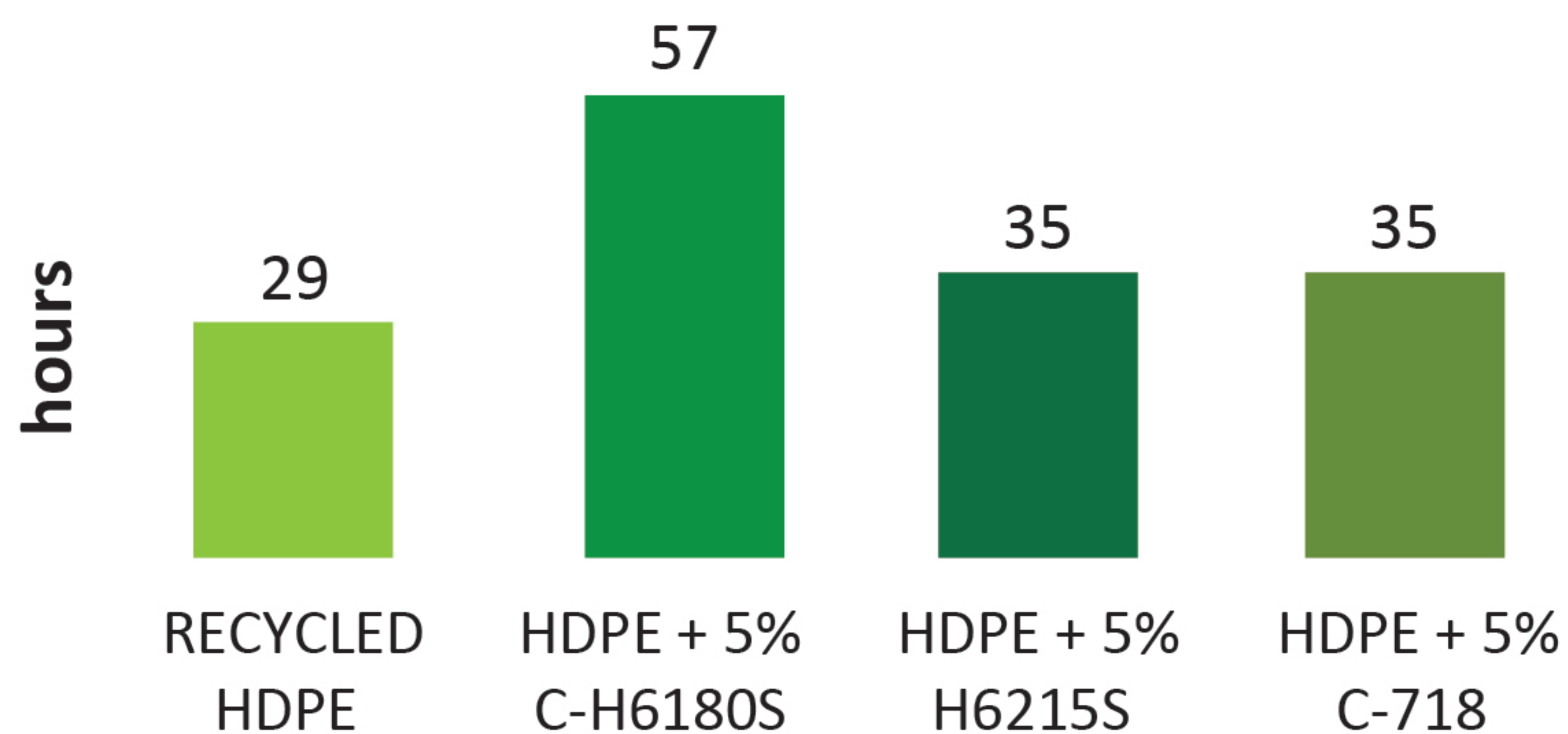


CHARPY IMPACT RESISTANCE (NOTCHED) 23°C (UNE 179-1:2011)



The environmental stress cracking resistance results in a very drastic improvement by only adding 5% of *Calprene H6180S*. This is an important property for the packaging sector.

ESCR - F50 (Igepal 100%, 50°C) (ASTM D1693)

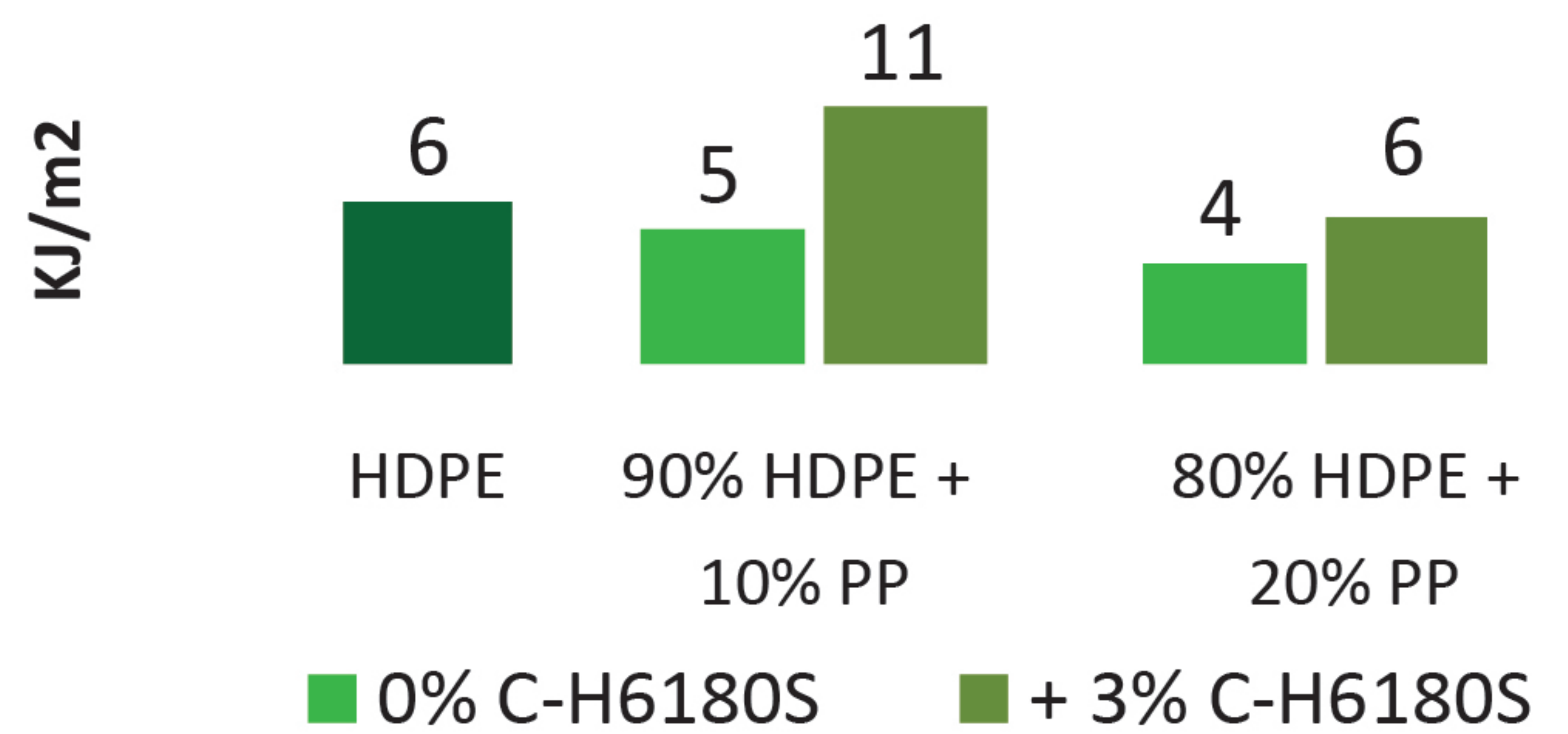


HDPE MIXED WITH PP

We tested the performance of our products by combining HDPE with 10 and 20% of PP.

Calprene H6180S is also effective when the HDPE is mixed with PP which makes it unnecessary to use a completely pure and hard to renew source.

CHARPY IMPACT RESISTANCE (NOTCHED) 0°C (UNE 179-1:2011)



CHARPY IMPACT RESISTANCE (NOTCHED) 23°C (UNE 179-1:2011)

