

## Low Temperature Sealing Solutions by Kastas Sealing Technologies

## **NBR Solutions for Low Temperature Applications**

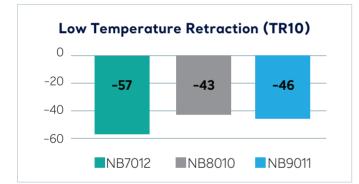
For the low temperature applications, Kastas Sealing Technologies developed three new compounds 70 Shore A (NB7012), 80 Shore (NB8010) and 90 Shore A (NB9011). All these three NBR compounds are suitable for low temperatures according to below mentioned values.

## **PU Solutions for Low Temperature Applications**

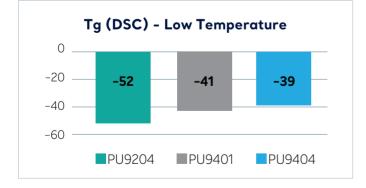
For the low temperature applications, Kastas Sealing Technologies developed PU9204 Polyurethane material. PU9204 has -52 °C Tg(DSC) value which can resist -50 °C for short intervals, -45 °C continuously.

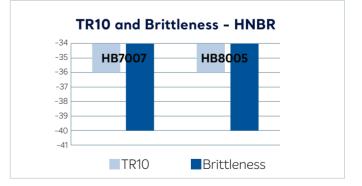
## **HNBR Solutions for Low Temperature Applications**

For the low temperature applications, Kastas Sealing Technologies developed 2 new compounds 70 Shore A (HB7007), 80 Shore A (HB8005). Both HNBR materials are suitable for -40 °C in all static applications and medium duty dynamic applications.



NB7012	70 SHORE A	-50 °C
NB8010	80 SHORE A	-40 °C
NB9011	90 SHORE A	-40 °C
PU9204	92 SHORE A	-52 °C
HB7007	70 SHORE A	-40 °C
HB8005	82 SHORE A	-40 °C





All the low temperature testing of NBR materials has been conducted by ARDL (Akron Laboratories, Ohio, USA) which is an internationally recognized A2LA accredited laboratory. TPU materials are tested by accredited laboratories of raw material producers and all test results are recorded for archiving, TPU material is suitable to be used below the Tg value unlike rubber parts therefore lower temperatures below the Tg values could be used by the consent of Kastas Sealing Technologies.