



Jeff Cawcutt of Zerma Africa was a very interested participant during the site visit

Zerma technology ...

Zerma used its experience gained in the development of recycling systems for plastics, wood and e-waste over more than 70 years in the design of its tyre recycling systems, which ultimately produce high quality materials for recycling. Final products could be either shreds for thermal recycling, predominantly in the cement industry, and crumb rubber of about 5mm size used in various applications.

Shredding and metal separation

The core of the line is the newly

developed Zerma ZXS-T tyre shredder. The lines now running are shredding passenger car and other tyres up to 1500mm diameter into a final particle size of approximately 20mm, as required by this customers down-stream processes.

Zerma tyre shredders are heavy-duty single-shaft shredders with gravity infeed and hydraulic rams specifically designed for the grinding of tyres. They feature extensive wear protection compared to other shredders. The machine is equipped with a flat rotor



Zerma ZXS-T and ZTTS shredders used for the down-sizing of passenger or truck tyres from 800mm to 1500mm diameter are major pieces of equipment where careful design improvements have been made to extend blade and machine life

made of highly wear resistant steel with added weld on hard-facing for longer lifetime.

The cutters used in these shredders are made from a newly designed, specialised material to ensure long life and optimal performance. As opposed to other systems, the Zerma technology does not require the tyres to be de-beaded. >>

"Thai manufacturer increases throughput from 25 to 45 tons an hour."

MyPlas gains ISO accreditation

CAPE multi-material recycler MyPlas has gained ISO standard accreditation, making it the second South African plastics recycler to achieve the international standard qualification.

MyPlas received its certificate on 3 January, confirming that it operates a quality management system which complies with the requirements of ISO 9001:2015 for the recycling of post-consumer, post-industrial and factory waste polyolefin materials.

The first SA recycler to achieve ISO accreditation was Extrupet, the Johannesburg-based PET recycler.

MyPlas, being a processor of a wider

range of materials, including HD, LD and PP, may have faced an even more daunting path en route to accreditation. The standards accreditation process was indeed difficult, conceded MyPlas director, Johann Conradie.

"Our focus is to supply custom-made high-quality recycled plastic for quality-sensitive applications where historically only virgin has been used," said Johann.

MyPlas, which emerged from Proplas, one of the oldest Cape recyclers (started 1983), has built up its systems and culture over the past three decades-plus.

After Proplas went bankrupt with the rest of the Lomold group in 2013, MyPlas purchased the assets from the liquidator and moved their plant in with that of Proplas at the premises in Bellville South. With John Nield joining the MyPlas team and providing the technical expertise and experience, MyPlas has grown steadily from there. In 2017 the company installed its own lab and set out on the standards qualification path in earnest.

Much of the impetus required to reach the desired standards has come from the buy-in of the MyPlas staff, ironically several of who are ex-Lomold and Plastamid personnel. That, together with the financial support of Polycy and the IDC, has now resulted in MyPlas crossing this next step in the quality journey that can only help garner better respect for SA's plastic recyclers.

Quality standards team – The MyPlas team is chuffed at having succeeded in lifting the standards of the recycling process at their plant in Bellville to an internationally accredited level

