

**DOVERNOX® D-9941T**  
**4:1 Blend of Doverphos® S-9228T and AO 1790**

**Dovernox D9941T** is a high performance solid antioxidant blend containing **Doverphos S-9228T** and **AO 1790**. The combination of these two high performance additives offer superior performance in many polymer applications compared to standard AO packages. Advantages of this blend are:

- High reactivity
- Low volatility
- Improved thermal stability
- Improved Color
- Improved NOx aging
- Improved Long Term Heat Aging
- Excellent hydrolytic stability
- Good handling and feeding characteristics
- Lower loading levels compared to conventional AO's

Component Name	CAS#	% By Weight
Doverphos S-9228T	154862-43-8	80%
AO 1790	40601-76-1	20%

**Typical Properties**

<b>Appearance</b>	<b>White/off white free-flowing granular</b>
<b>%P</b>	<b>5.8%</b>
<b>Acid Number; mgKOH/g</b>	<b>&lt;0.5%</b>
<b>Volatiles 105°C</b>	<b>&lt;0.5%</b>

**Dovernox D-9941T** has broad food approvals and regulatory approvals and can be used safely in most polymer applications, including food packaging.

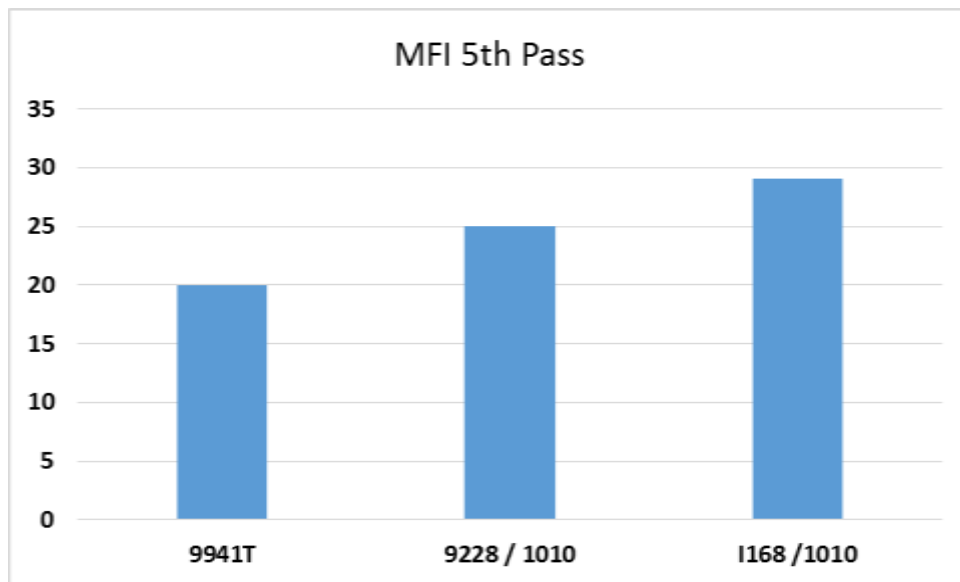
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**Dovernox D-9941T** is offered as both a powder blend as well as non-dusting compacted grade for easy handling in a variety of feeding systems.

### Performance in Polypropylene

**Dovernox D-9941T** was evaluated in polypropylene by multi-pass extrusion at 260C and compared to other antioxidant blends. Both of the competitive blends were run at a 4-1 ratio of the phosphite to primary antioxidant.



**Dovernox D-9941T** shows improved melt low stability after the 5<sup>th</sup> pass indicating that it is providing improved thermo-oxidative protection to the polymer. This combination of a high performance phosphite and primary antioxidant is ideal for many applications where the best performance is needed.

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