

ON THE RINGS WHOSE INJECTIVE HULLS ARE FLAT

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Let R be a commutative Noetherian ring with nonzero identity and let the injective envelope of R be flat. We characterize this kind of rings and obtain some results about modules with nonzero injective cover over these rings.

In fact we show that if an R -module M has a nonzero injective cover then $\text{Ass}R \cap \text{Coass}M \neq \emptyset$. The converse is true if M is cotorsion.