

## Claims

1. A molding comprising a zeolitic material having framework type MWW, having a framework structure comprising Ti, Si, and O, wherein the zeolitic material further comprises Zn  
5 and an alkaline earth metal M, the molding further comprising a binder, wherein the molding exhibits a integral extinction units of the IR band at  $1490\text{ cm}^{-1}$  of equal to or smaller than 8, determined as described in Reference Example 1.
2. The molding of claim 1, comprising Si, calculated as element, in an amount in the range of  
10 from 20 to 60 weight-%, based on the total weight of the molding.
3. The molding of claim 1 or 2, comprising Ti, calculated as element, in an amount in the range of from 0.1 to 5 weight-%,
- 15 4. The molding of any one of claims 1 to 3, comprising Zn, calculated as element, in an amount in the range of from 0.1 to 5 weight-%, based on the total weight of the molding.
5. The molding of any one of claims 1 to 4, comprising the alkaline earth metal M, calculated as element, in an amount in the range of from 0.1 to 5 weight-%, based on the total weight  
20 of the molding.
6. The molding of any one of claims 1 to 5, wherein the zeolitic material further comprises a rare earth metal.
- 25 7. The molding of any one of claims 1 to 6, wherein the binder comprises Si and O.
8. The molding of any one of claims 1 to 7, wherein the molding exhibits a total pore volume in the range of from 0.5 to 3.0 mL/g, wherein the pore volume is determined according to  
30 DIN 66133.
9. The molding of any one of claims 1 to 8, wherein the molding comprises a concentration of acid sites in the range of from 0.05 to 1.00 mmol/g at a temperature lower than  $200\text{ }^{\circ}\text{C}$ , and/or wherein the molding comprises a concentration of acid sites in the range of from 0.001 to 0.5 mmol/g at a temperature higher than  $500\text{ }^{\circ}\text{C}$ , wherein the concentration of  
35 acid sites is determined by temperature programmed desorption of ammonia ( $\text{NH}_3$ -TPD) according to Reference Example 5.
10. A process for preparing a molding comprising a zeolitic material having framework type MWW and a binder material, the process comprising  
40 (i) providing a molding comprising a zeolitic material having framework type MWW, having a framework structure comprising Ti, Si, and O, wherein the zeolitic material further comprises Zn, an alkaline earth metal M, and optionally a rare earth metal, wherein the molding further comprises a binder for said zeolitic material;

- (ii) preparing a mixture comprising the precursor molding according to (i) and water, and subjecting the mixture to a water treatment under hydrothermal conditions, obtaining a water-treated molding, and calcining the water-treated molding in a gas atmosphere.
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11. The process of claim 10, wherein (i) comprises
- (i.1) providing a zeolitic material having framework type MWW and having a framework structure comprising Ti, Si, and O;
- (i.2) providing an aqueous solution of a source of Zn;
- 10 (i.3) providing an aqueous solution of a source of an alkaline earth metal M;
- (i.4) optionally providing an aqueous solution of a source of a rare earth metal;
- (i.5) impregnating the zeolitic material provided according to (i.1) with the aqueous solution provided according to (i.2), the aqueous solution according to (i.3), and optionally the aqueous solution provided according to (i.4), obtaining an impregnated zeolitic material;
- 15 (i.6) preparing a mixture comprising the impregnated zeolitic material obtained from (i.5) and a binder precursor;
- (i.7) shaping of the mixture obtained from (i.6).
- 20 12. A molding comprising a zeolitic material having framework type MWW and a binder material, obtainable or obtained by a process according to claim 10 or 11.
13. Use of a molding according to any one of claims 1 to 9 or according to claim 12 as an adsorbent, an absorbent, a catalyst or a catalyst component.
- 25 14. A process for oxidizing an organic compound comprising bringing the organic compound in contact with a catalyst comprising a molding according to any one of claims 1 to 9 or according to claim 12.
- 30 15. A process for preparing propylene oxide comprising reacting propene with hydrogen peroxide in acetonitrile solution in the presence of a catalyst comprising a molding according to any one of claims 1 to 9 or according to claim 12 to obtain propylene oxide.