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[FIRE RETARDANTS]

MOLDX[®] A120 (ALUMINA TRIHYDRATE)

PRODUCT DESCRIPTION:

MOLDX A120 is a special grade of alumina trihydrate (ATH or hydrated alumina) that is a non-toxic, non-corrosive, flame retardant and smoke suppressant utilized in elastomeric applications. ATH is a very effective flame retardant due to its thermodynamic properties which absorb heat and release water vapor. Alumina trihydrate releases its 35% water of crystallization as water vapor when heated above 205°C. The resulting endothermic reaction cools the product below flash point, reducing the risk of fire and acts as a vapor barrier to prevent oxygen from reaching the flame. Typical loadings vary from 20 phr to 150 phr. Because many polymers like polyethylene and polypropylene process above 200°C, these polyolefins should use magnesium hydroxide as a flame retardant filler since its water of hydration releases at approximately 325°C.

MoldX A120 is unique due to its ability to improve processing behavior at high loadings when compared to traditional ATHs. Improvements may include: excellent surface profiles in molded and extruded parts, smooth surfaces, excellent dispersibility and reduced mix cycles.

TYPICAL CHEMICAL PROPERTIES:

Chemical Decomposition.....	Al(OH) ₃ → Al ₂ O ₃ - 3H ₂ O
Al ₂ O ₃	65.0%
Loss on Ignition	34.6%
SiO ₂	0.005%
Fe ₂ O ₃	0.007%
Na ₂ O.....	0.20%
Free Moisture	0.20%

TYPICAL PHYSICAL PROPERTIES:

Median Particle Size	12 um
Surface Area.....	1.2 m ² /gm
Specific Gravity	2.42
TAPPI Brightness	87
325 Mesh (through).....	93%

MOLDX[®] is a registered trade name of J.M. Huber Corporation

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