SIN RUBTECH®

TECHNICAL DATA SHEET

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SIN RUBTECH® POLYMER BOUND PREDISPERSED CTP – 80G

Product Description

Composition:	A proprietary 80% N-(Cyclohexylthio) phthalimide in a 20% elastomeric / processing aids binder specially formulated for use in EPDM, NR, SBR, BR formulations
Appearance:	Beige Granules.
Density:	Approx. 1.18 g/cm^3.
ML 1+4 @ 50°C	< 70
Moisture Content:	< 1.0 %
Melting Point: (of active CTP)	> 89 8C
Storage Stability:	At least 2 years under normal storage conditions.
Packing:	18 kg nett in sealed PE bag in a carton box.

Recommendations and Applications

Polymer bound predispersed CTP – 80G is recommended where a more eco-friendly material, high productivity and better dispersion is required. This often translates to lower bottom-line costing.

The active ingredient N-(Cyclohexylthio) phthalimide is a prevulcanisation inhibitor for the purpose of increasing processing safety (scorch) with minimum effect on processing or vulcanisate properties. CTP is active in nearly all sulphur curable elastomers such as NR, BR, SBR, NBR, EPDM, and CR. It is most effective in NR cured with sulphenamides using conventional S levels. At 0.2 PHR, CTP – 80G can increase Mooney Scorch by at least 30% in NR. CTP is less effective with thiazoles and virtually ineffective with thiurams as the primary accelerator (A sulphenamide at 0.3 PHR can be used as a retarder instead). The activity of CTP is increased with dosage but care should be taken to avoid bloom (" Sparkling Fever") at dosage exceeding 0.6 PHR CTP – 80G.

CTP – 80G can also be used to recover scorchy final mixes. This is best done on open mills . Form a small band first and add in ~ 0.6 PHR of CTP – 80G before adding the balance of the final mix. Such scorchy final mixes should first be screened by 1 pass through the mill. If it shreds, it is beyond recovery. If the scorchy final mixes have higher Mooney than specified, use 0.25 PHR PEPTSIN S with 0.4 PHR CTP – 80G.

CTP – 80G has no odour and is non-discolouring and non-staining and hence can also be used in coloured products. CTP – 80G can also be used to obtain 1-step Final Mixes. Add the CTP – 80G together with S – 80G and CBS – 70G or TBBS – 70G, say 45″ before dumping. Since CTP melts at ~ 90°C, the use of our CTP – 80G is less messy and easier to incorporate.

CTP – 80G can also be used in rubber products in contact with foodstuff. (German Health Ministry : Recommendation XXI. Cat. 4)

Dosage

CTP – 80G is recommended to be used initially at 1.0 : 1.0 replacement of CTP powder.

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