Fabrication and Characterization of Carbon Black and Phenol Formaldehyde Composites

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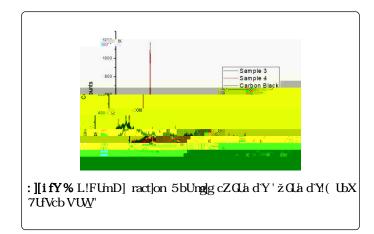
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Phenol formaldehyde

 $\label{eq:linear} D\bc`ZcfaUXY\nXY]gUgccVhJbYXk]h\UgnYcZ%aaXJLaYhf' D\bc`ZcfaUXY\nXY]gcZhccmaYggWUgVMgc`maYUbXfYgc`maY' =b h\]gWgYfYgc`maYkUgigXX'$

Preparation of the sample

; f]bX]b[WFVcb VUW UbX d\Ybc`Zefa UXX\nXY :]fglž WfVcb VUW cZga U``i a d ghYk Ug [fci bX hc f ne dck XYf UbX h\Yb d\Ybc` Zefa UXX\nXY k Ug [fci bX hc



Bulk density

 $: cf) \& a [lhifY cZWFVcb VUW UbX d\Ybc` Zcfa UXX\nXXZ Vi _ Xbglm j Uf]Uf_cb Zcf h/a dYfhifYz dfYgg fY UbX dfYgg fY UbX h/a dYfUifY \cXb[Ha Y]g jYfm g][\h' K]h hY WUb[Y cZ W/a dcglf_cb cZWFVcb VUW UbX d\Ybc` Zcfa UXX\nXXZ Vi _ Xbglm j Uf]Uf_cb]gcVgfj XX 5ghYdYfVbH[Y cZWFVcb VUW] bWMgVgZVi _$

Wa dcglh'i bXh b]hc[Yb Ua cgh\Yhc_d'UW]b hfYy hdg 6Yck ' \$\$.7 \dot{z} ff rst fY] cbL Y c'i hcb cZk UhfZ Wcgd']b_XX VndfcXi Wg UX i bfYUMX c'][ca Yhg']g hY a Ub fYUMjcb" e XXWa dcglhcb cZ Wa dcglh'g dtfhX Uh' \$\$.7 UbX hYs]gn]f cant Xi[fUXLhcb cWiffYX Vhk Yb ' \$\$!*\$\$.7 fYg 'hb[]b hY [YbYfU]cb cZ'U[Y bi a Vf cZ [U2Yci g] c'U]'Yz]bWiX]b[7Cž< {Cžga U`a c'WiYhXfcWfVcbgUbX ch Yf Wa dci bXg O\$296Q 6Yh Yb) \$\$!, \$\$.7 \ddot{z} kY][h 'cg Wfj Y VYWa Y fYUhj Ymf atter k\]W]g Uhf] hX hc hY VfYUUY UbX fYX]gfjVi hcb fYUMjcbgcZhY7 7 VcbXg 8i Yhc hY]bWAUgXWfVcb VUV]]bWfdcfUhcb hY WU nhYX]bWAUgXZfca) \$'88 hc *\$'\$(1 \ddot{z} k\]W]g U]bX]Whcb cZ]a dfcj YX h Yfa U gfU]']mIbXhYvcbX]b[gfYb[h cZhYUX\Ygj YUh\][\ ha dYfUh fY': fca hY8H jUi YgUg g\ckb]b HVY &ž]hWb YYWU mgYb hUhhYXWa dcglhcb dYU %% Bcf_\Ufibb]gUAž5n]nUb5žAUf]Uhl;Až=gaU`<žC[a @7f8\$%&L ermal g1UA]`]hmUbXYYWAf]WUV\Uj]cf cZdc`nX4jaYh\mgi`clUbY

bUbcWa dcglhgk]h. WrVcb bUbch VlgUbXWrVcb VUV fllers xi fbU cZ7ca dcglhYA Uhf]Ug(*.-S !-%"