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NIDA-based sulfonated polyimide
Sulfonated diamine: $\mathrm{H}_{2} \mathrm{NR}_{4}-\mathrm{NH}_{2}$


Nonsulfonated diamire: $\mathrm{H}_{2} \mathrm{NR}_{2}-\mathrm{NH}_{2}$


Fig. 1 Chemical structures of sulfonated polyimides
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