



# Technical Communication

## (vol. 01)




### 「Light fastness of pale shade dyed CDP」

- Currently in Japan, Carbon-arc is still used as a standard for apparel. Even if the dye clears the carbon-arc standard, dyed CDP products may sometimes lead to market complaints.

 <p style="text-align: center;">Red Fading</p>	<p>「Consultation: Store with CDP/PET product experienced Red fading」</p> <ul style="list-style-type: none"> <li>• There was a consultation by an apparel store regarding red fading on their products.</li> <li>• There was no problem with Carbon-arc light fastness.</li> <li>• The dyeing factory and dye used are unknown, possibly overseas.</li> </ul> <p>「Diagnosis」</p> <ul style="list-style-type: none"> <li>• Red fading → If it is due to heat, Blue is fading.</li> <li>• This phenomenon occurs when a dye with the same structure as KAC Red GRL-ED is used as a Red component.</li> </ul> <p>「Comment」</p> <ul style="list-style-type: none"> <li>• This phenomenon cannot be reproduced with Carbon-arc Light fastness test.</li> <li>• This phenomenon can be reproduced with Xenon-arc Light fastness test or exposure to sunlight.</li> <li>• This phenomenon does not occur in Acryl.</li> </ul>
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 <p style="text-align: center;">Xenon irradiated part</p>	<p>「Consultation: Store with CDP/PET product experienced Red fading」</p> <ul style="list-style-type: none"> <li>• The phenomenon was reproduced with Xenon-arc.</li> </ul> <p>「Recommended Nippon Kayaku trichromatic colors」</p> <ol style="list-style-type: none"> <li>① KAC Yellow 3RL-ED, KAC Red GL-ED, KAC Blue BG-ED(N)</li> <li>② KAC Yellow 3RL-ED, KAC Red GL-ED, KAC Blue TL-ED</li> </ol> <ol style="list-style-type: none"> <li>① Generally recommended trichromatic colors</li> <li>② High light fastness trichromatic colors</li> </ol> <ul style="list-style-type: none"> <li>• KAC Red GL-ED is recommended for pale shades to reduce this problem for CDP fabrics.</li> </ul>
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- Previous data

Light fastness Grade 4	Carbon-arc	Xenon-arc	Sunlight (Fine weather 35°C, 19.5H)
Red KAC Red GL-ED			
Red KAC Red GRL-ED	