

Acrylic Resin  
**ACRYPET™**  
Catalog by application



# ACRYPET™

ACRYPET™ is the trade mark of Polymethyl Methacrylate (PMMA) material commercialized by Mitsubishi Chemical Group.

PMMA has the best transparency among all plastics. With its excellent weatherability, anti-chemical resistance, surface hardness and appearance, PMMA is widely used in automotive, construction, home appliances and optical applications among our daily life. ACRYPET™ has a comprehensive product line-up from high impact grades to various high quality materials to fulfill diversified market needs.

## Applications

Application	Automotive parts Lighting parts	Washbowl Display units	Plastic window profile Stationary	Automotive parts Rice cooker lid	Rain gutter Pipe coating	Washing machine lid	Automotive parts
Grade recommendation	Standard VH	Impact resistance					High impact resistance VRL40
Temperature of deflection under load °C	100	93	85	94	86	88	94
Melt flow rate g/10min	2.0	1.0	2.5	3.1	8.5	1.7	2.5
Charpy impact strength 1eA Vnotched kJ/m <sup>2</sup>	1.4	2.9	2.9	2.4	2.6	4.8	7.4

All data are typical value, no standard value.

## Colors

Based on our excellent compounding technology, suggestion of coloring and high-functional products are available.



Standard Color	Smoke color NS	Frosted color (Milky white color) NW	High diffusion PD	Filter PF	
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# Indoor



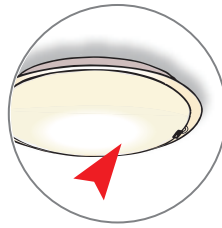
1 Grade  
IRL

Washing machine lid



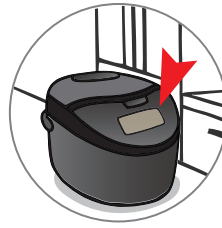
2 Grade  
VH

Toilet



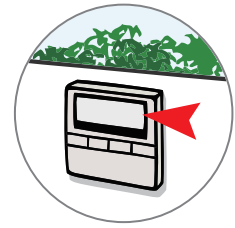
3 Color  
NW/PD

Ceiling light cover



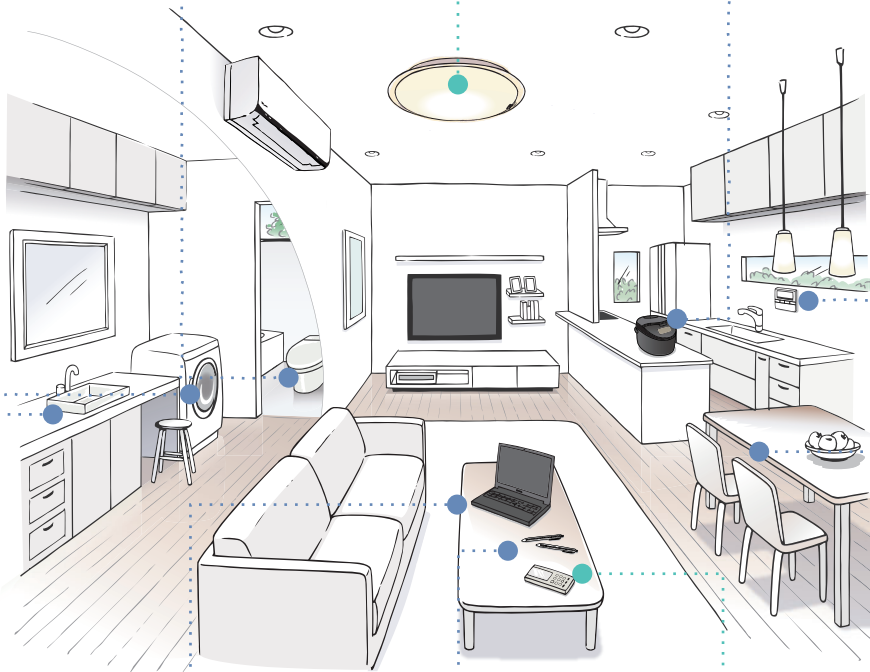
4 Grade  
IRK

Rice cooker lid



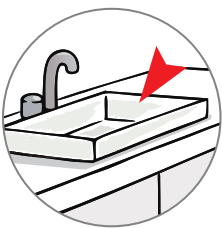
5 Grade  
IRH

Display units



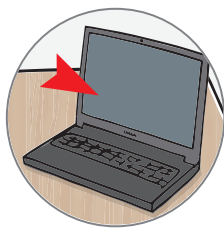
Washbowl

6 Grade  
IRH



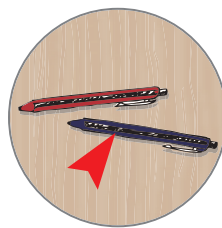
Light guide plate

7 Grade  
TF9/VH6



Stationary

8 Grade  
IRD



Remote control transceiver

9 Color  
PF

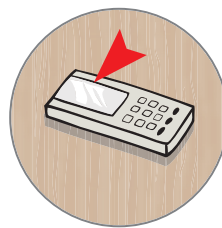
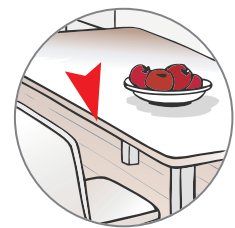


Table furniture (Edge)

10 Grade  
RF065



others

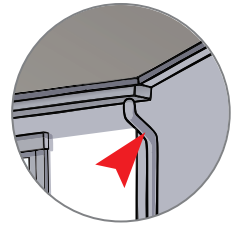
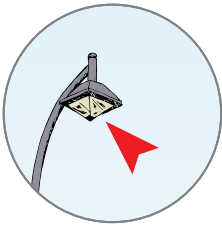
- Smart phone housing ● OA equipment (Printer, Fax machine) ● Accessory (Key holder, Decoration, Stamp)
- Packing case ● Office furniture ● Home appliances (Vacuum cleaner, Air conditioner) ● Amusement equipment
- Tools ● Eyeglasses lens ● Optical lens ● Musical instrument (Piano key) ● Button



# Outdoor

Automotive  
inner decoration

Automotive  
inner decoration



1 Grade  
VH

Road lamp

2 Grade  
VH/VHM

Meter cover,  
Lighting

3 Grade  
VRL40

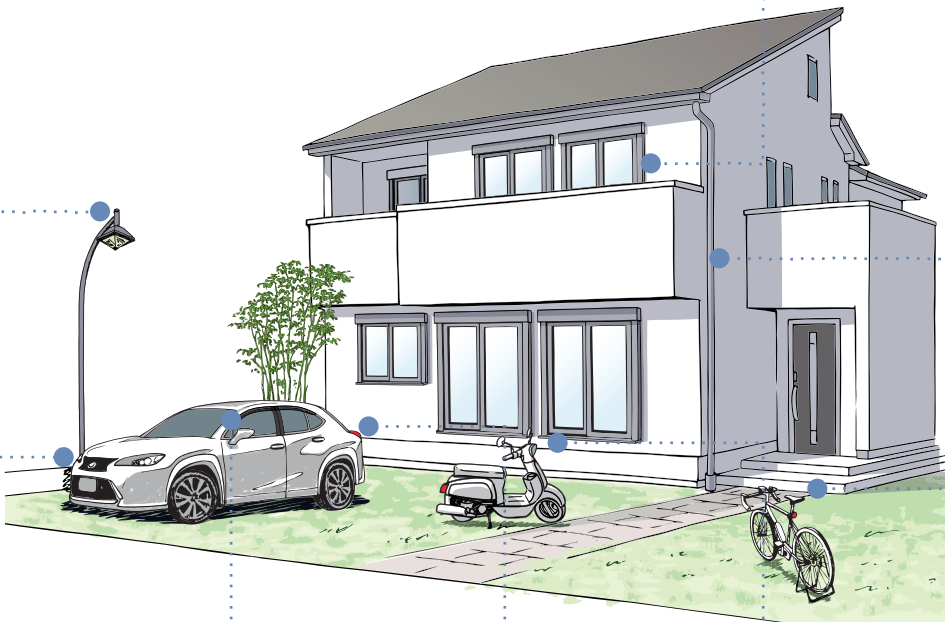
Ornament,  
Display

4 Grade  
IRD

Plastic window  
profile

5 Grade  
IRS

Rain gutter,  
Pipe coating



Front grille

6 Grade  
VH

Pillar, Visor

7 Grade  
IRK

Tail light,  
Rear garnish

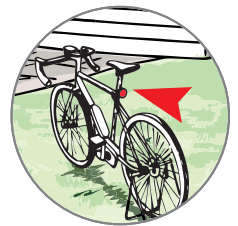
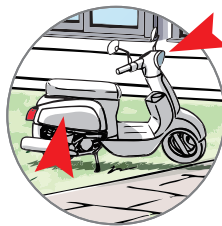
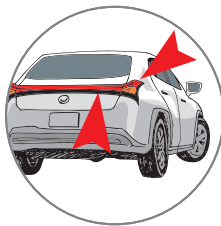
8 Grade  
VH

Head light,  
Body parts

9 Grade  
VH/VR

Bicycle  
reflector

10 Grade  
VH



others

- CCTV cover
- Signboard
- Display board
- Sound barrier
- Balcony panel (Roof etc.)
- Power distribution board case
- Vending machine
- Agricultural machinery

# New Item

## Optical Diffusion

Possible for changing both clear and diffusing color by switching on and off the LED.



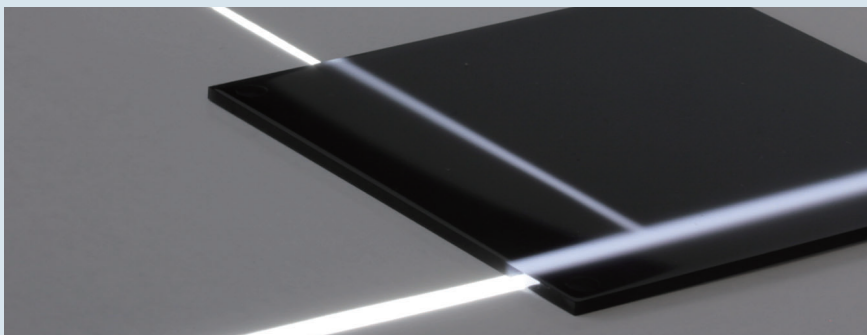
## Black & Color

Black & Color can change transmitted light color of white LED into several light color through it.



## Black & White

Black & White is smoke color. It hides the lighting device when it is off, but it can diffuse when it is on.



※ Information is available on our website.

※ "ACRYPET™ integrated catalog" is also available.

※ Various products are available except this catalog.

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