

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 ²	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	
----------------	-------------------	--	----------------------	--------------	--

Indoor



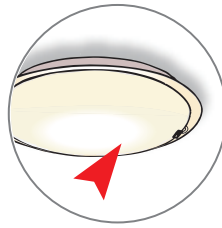
1 Grade
IRL

Washing machine lid



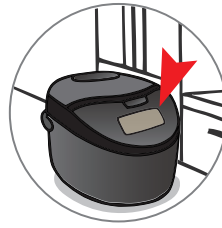
2 Grade
VH

Toilet



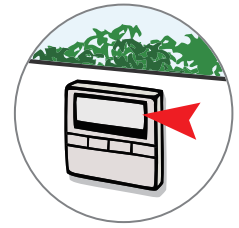
3 Color
NW/PD

Ceiling light cover



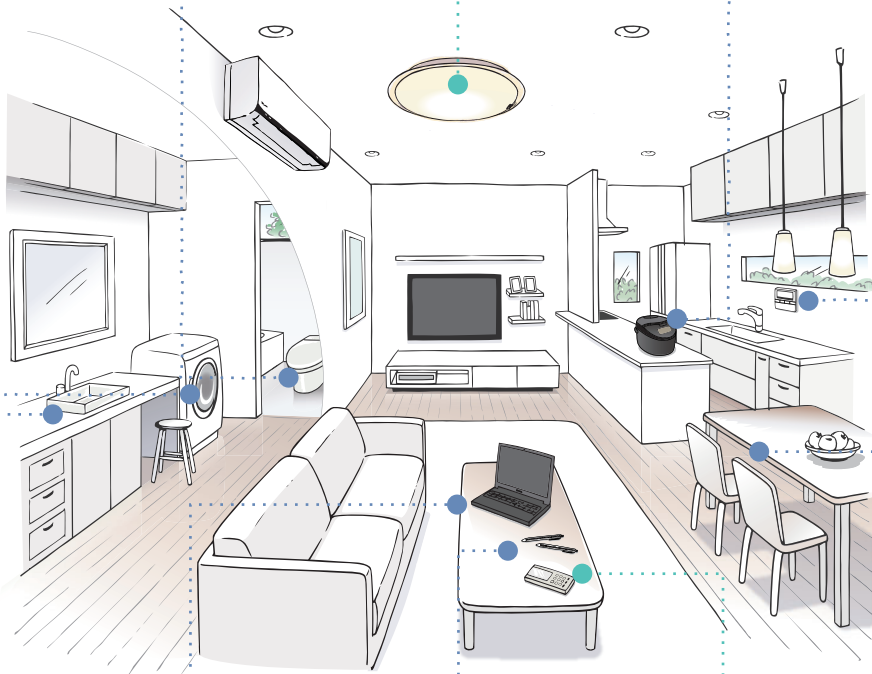
4 Grade
IRK

Rice cooker lid



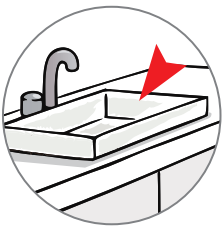
5 Grade
IRH

Display units



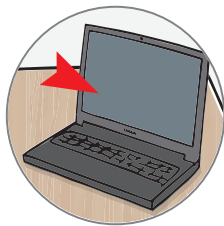
Washbowl

6 Grade
IRH



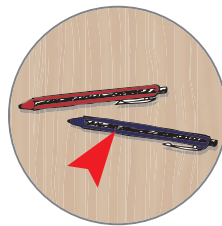
Light guide plate

7 Grade
TF9/VH6



Stationary

8 Grade
IRD



Remote control transceiver

9 Color
PF

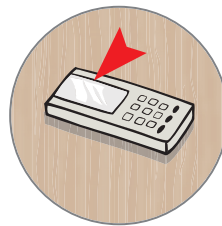
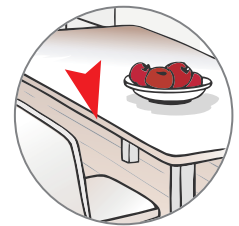


Table furniture (Edge)

10 Grade
RF065



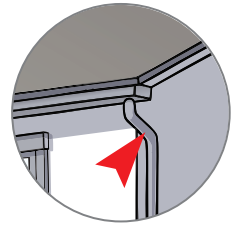
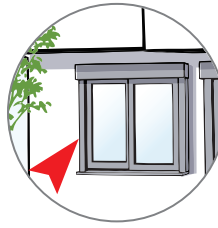
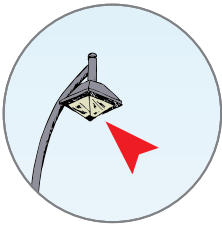
others

- 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

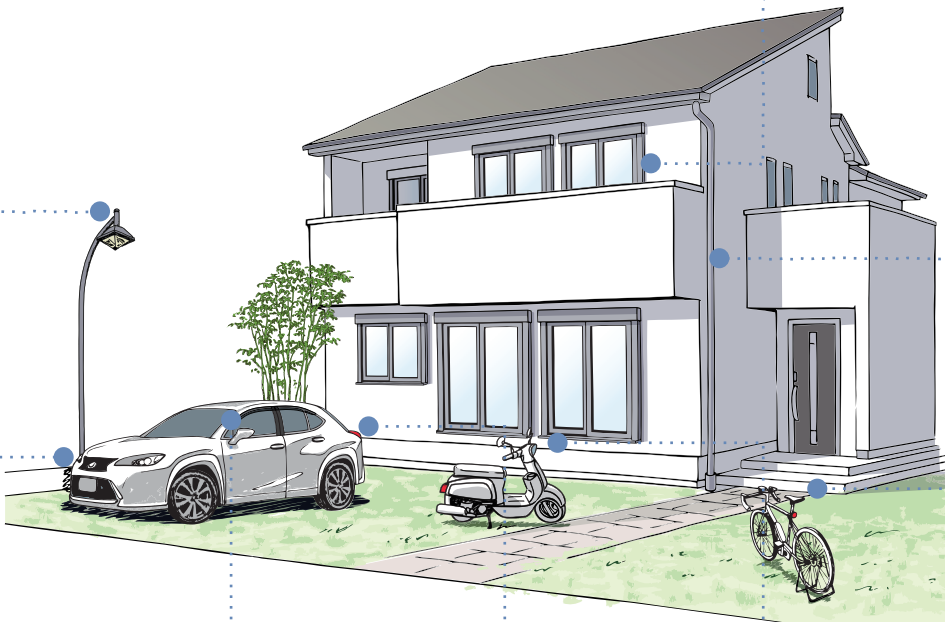
Ornament,
Display

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

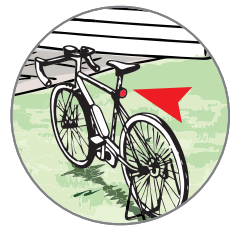
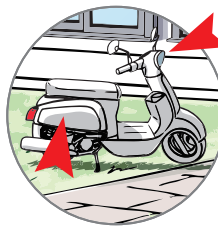
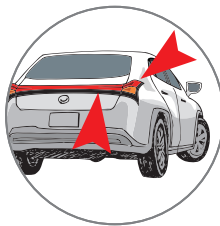
8 Grade
VH

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.



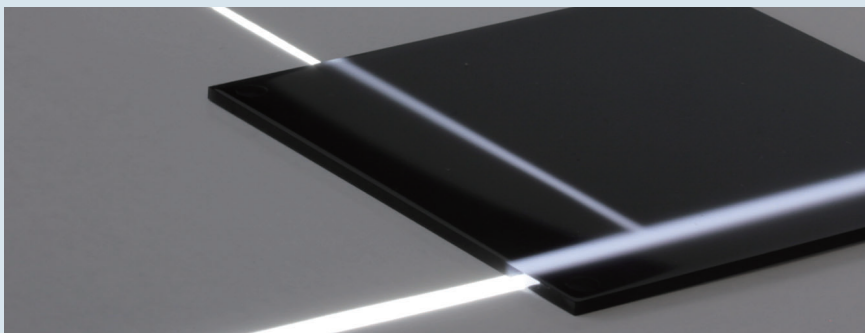
Black & Color

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™ intergrated catalog" is also available.

※ Various products are available except this catalog.

MITSUBISHI CHEMICAL CORPORATION

1-1,Marunouchi 1-chome,Chiyoda-ku,Tokyo 100-8251,Japan TEL.+81-3-6748-7535

<https://www.m-chemical.co.jp>

Contact Us

Diapolyacrylate Company Limited

100/62 30th Floor, Sathorn Nakorn Tower, North Sathorn Rd.,Khwaeng Silom, Khet Bangrak, Bangkok 10500, Thailand
TEL.+66-2-636-7579

Mitsubishi Chemical Hong Kong Limited

Suites 2905-6, 29/F, Tower 2, The Gateway, Harbour City, 25 Canton Rd. Tsimshatsui, Kowloon, Hong Kong
TEL.+852-2522-7031

Mitsubishi Chemical Methacrylates (Shanghai) Co., Ltd.

Room2601, Metro Tower, 30 Tian Yao Qiao Road, Xuhui District, Shanghai 200030, China
TEL.+86-21-6426-8899

Mitsubishi Chemical Polymer Nantong Co.,Ltd.

No.6 Guangzhou Road Nantong Economic & Technological Development Area, Jiangsu Province 226009, China
TEL.+86-513-8596-0500

LOTTE MCC CORPORATION

Lotte World Tower 14F, 300, Olympic-ro, Songpa-gu, Seoul 05551, Korea
TEL.+82-2-840-0917

Lucite International Alpha BV

Merseyweg 16, 3197 KG Botlek, Rozenburg Netherlands
TEL.+31-181-233-205

Mitsubishi Chemical America,Inc.

9115 Harris Corners Parkway, Suite 300, Charlotte, NC 28269, U.S.A
TEL.+1-980-580-2839

PMMA Business Department ACRYPET

[https:// www.acrypet.com /](https://www.acrypet.com/)