

For LED (optical parts) light diffusion/ reflection PP molding compound

LED光学部品用 光拡散・光反射PP樹脂成形材料

FULL BRIGHT PP

MBG105H MBG130H

Applications 用途

Meter panel, Lighting for plant factories, Signboard lighting for stores, etc.
メータパネル、植物工場用照明、店舗などの看板照明



PP materials with excellent resistance to ultraviolet, chemicals and light discoloration. Light diffusion type: 30% weight reduction compared to PC material. Realizing the 95-98% light reflectance (Cost reduction, Performance improvement)
耐UV性、耐薬品性、耐光変色特性に優れたPP材料。

光拡散タイプ：軽量化を実現→対PC材30%カット 光反射タイプ：光反射率95-98%を実現→コストダウン、性能向上

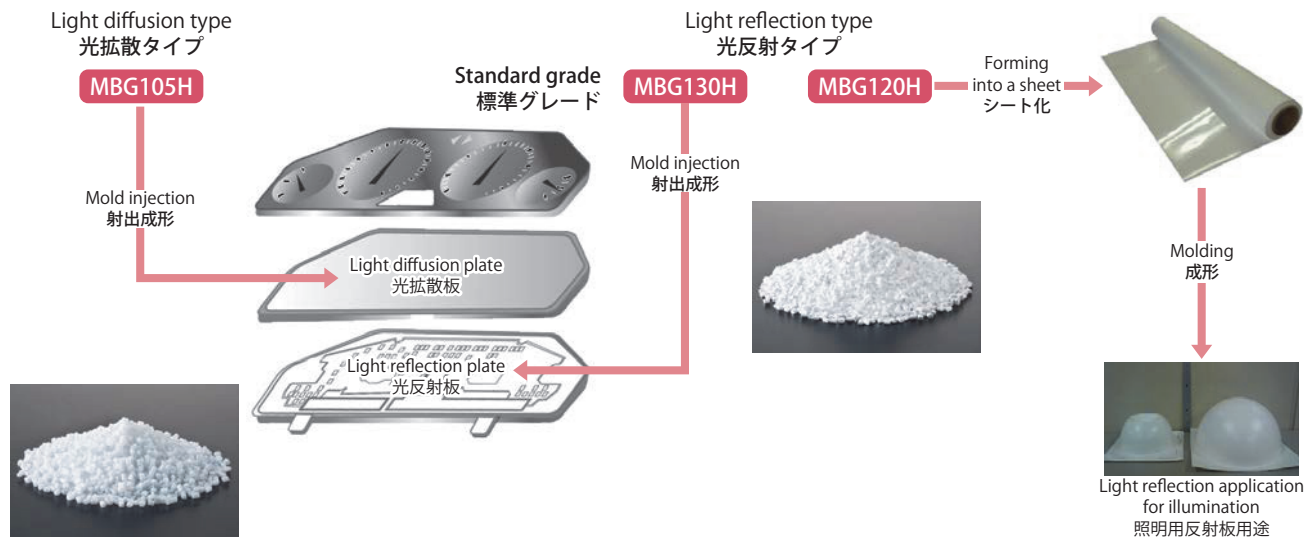
Light diffusion/reflection
光拡散/光反射

UV resistance
耐UV

Chemical resistance
耐薬品

Line-up

ラインアップ



General properties 一般特性

● Light diffusion plate

Item	Unit	MBG105H		
Grade	—	Standard	High functional	
Haze	—	91.6	91.7	
Total light transmittance	%	66.4	58.3	
Diffused light transmittance	%	60.8	53.4	
Parallel light transmittance	%	5.6	4.9	
Density	g/cm ³	0.94	0.96	
Deflection temperature under load	4.6kgf	°C	122	125
	18.6kgf	°C	70	75

● Light reflection plate

Item	Unit	MBG130H	
Color tone	L value	—	96.6
	A value	—	-0.56
	B value	—	1.13
Reflectance	500nm	%	95
	600nm	%	96
Density	g/cm ³	1.27	
Deflection temperature under load	4.6kgf	°C	135
	18.6kgf	°C	90

● Sheet forming → Molding

Item	Unit	MBG120H	White foamed PET	
Reflectance	Initial stage (500nm)	%	98	50
	120°C・UV	%	90<	<80
Whiteness ΔE	Initial stage (500nm)	—	0	0
	120°C・UV	—	3	20<(Yellow)

The above data are typical values and not guaranteed values. 上記データは当社測定による代表値であり、保証値ではありません。