

Properties of DELPET™ High jet black (PIANO BLACK) “PB Series”

AsahiKASEI
ASAHI KASEI CHEMICALS

Property	Method	Units	PB01	BIMODAL PB21	BIMODAL PB22
1. Rheological Properties					
Melt mass-flow rate (230°C、37.3N)	1133	g/10min	2. 0	1. 8	0. 6
Spiral flow length Thickness:2mm Cylinder Temp:250°C Mold Temp:60°C Pressure:75MPa	ASAHIKASEI method	cm	27	33	27
2. Mechanical Properties					
Tensile modulus	527-2/1A/1	MPa	3300	3300	3300
Tensile strength at break	527-2/1A/5	MPa	77	77	77
Tensile strain at break	527-2/1A/5	%	6	6	8
Charpy impact strength (Unnotched)	179/1eU	KJ/m ²	22	22	24
Charpy impact strength (Notched)	179/1eA	KJ/m ²	1. 4	1. 4	1. 4
3. Thermal properties					
Temperature of deflection under load	75-1 75-2	°C	100	100	98
VICAT softening temperature	306 B 50	°C	108	108	106
4. Physical properties					
Water absorption at 23°C	62 method 1	%	0. 3	0. 3	0. 3
Density	1183	g/cm ³	1. 19	1. 19	1. 19
5. Specific properties not specified in ISO 10350					
Refractive index	489	—	—	—	—
Total luminous transmittance	13468-1	%	—	—	—
Flexural modulus	178	MPa	3300	3300	3300
Flexural strength	178	MPa	130	130	130
Rockwell hardness	2039-2	M scale	100	100	100
		R scale			
Mold shrinkage percent	ASAHIKASEI method	cm/cm	0.002~0.006	0.002~0.006	0.002~0.006

※The value in the above Table are representative values obtained using the noted test methods.
Please use these values as a reference when selecting the most suitable grade for each respective use.
In addition, these values may change due to the improvement of properties.