Properties of DELPET™ Bimodal grades

AsahiKASEI
ASAHI KASEI CORPORATION

Property	Method	Units	80N	BIMODAL 80NE	80NB	BIMODAL 80EB
1. Rheological Properties						
Melt mass-flow rate (230℃、3.8kg)	1133 cond 13	g/10min	2.0	1.8	0.5	0.6
Spiral flow length Thickness:2mm Cylinder Temp:250℃ Mold Temp:60℃ Pressure:75MPa	ASAHIKASEI method	cm	27	33	22	27
2. Mechanical Properties						
Tensile modulus	527-2/1A/1	MPa	3300	3300	3300	3300
Tensile strength at break	527-2/1A/5	MPa	77	77	77	77
Tensile strain at break	527-2/1A/5	%	6	6	8	8
Charpy impact strength (Unnotched)	179/1eU	KJ/m^2	22	22	24	24
Charpy impact strength (Notched)	179/1eA	KJ/m^2	1.4	1.4	1.4	1.4
3. Thermal properties						
Temperature of deflection under load	75-1 75-2	℃	100	100	96	98
VICAT softening temperature	306 B 50	℃	109	109	104	107
4. Physical properties						
Water absorption at 23℃	62 method 1	%	0.3	0.3	0.3	0.3
Density	1183	g/cm3	1.19	1.19	1.19	1.19
5. Specific properties (not in ISO 10350)						
Refractive index	489	—	1.49	1.49	1.49	1.49
Total luminous transmittance	13468-1	%	92	92	92	92
Flexural modulus	178	MPa	3300	3300	3300	3300
Flexural strength	178	MPa	130	130	130	130
Rockwell hardness	2039-2	M scale	100	100	95	95
		R scale				
Mold shrinkage	ASAHIKASEI method	cm/cm	0.002～0.006	0.002～0.006	0.002～0.006	0.002～0.006

NOTE: The values 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. □