

General properties of DELPETTM Standard Grades

AsahiKASEI

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Item	ISO Method	Unit	720V	560F	60N	80N	80NB	LP-1	80HD	80NR	80NR-S Good Releasability
1. Rheological Properties			Super-High Flow	High Flow	Good Flow	High Heat	Solvent resistant	Solvent resistant	Extrusion	Releasability	
Melt mass-flow rate (230°C, 37.3N)	1133	g/10min	2.5	1.3	8.0	2.0	0.5	1.1	1.8	2.1	2.2
Spiral flow length Thickness : 2mm Cylinder Temp : 250°C Mold Temp : 60°C Pressure : 75MPa											
2. Mechanical Properties											
Tensile modulus	527-2/1A/1	MPa	3200	3300	3300	3300	3300	3300	3300	3300	3300
Tensile strength at break	527-2/1A/5	MPa	48	70	72	77	77	77	77	77	77
Tensile strain at break	527-2/1A/5	%	3	5	5	6	8	8	6	6	6
Flexural modulus	178	MPa	3200	3300	3300	3300	3300	3300	3300	3300	3300
Flexural strength	178	MPa	87	120	120	130	130	130	130	130	130
Charpy impact strength (Unnotched)	179/1eU	kJ/m ²	1.5	2.0	2.0	2.2	2.4	2.2	2.2	2.2	2.2
Charpy impact strength (Notched)	179/1eA	kJ/m ²	1.2	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4
3. Thermal Properties											
Temperature of deflection under load (1.8 MPa)	75-1 75-2	°C	95	88	91	100	96	97	98	100	100
VICAT softening temperature	306 B 50	°C	105	94	98	109	104	104	108	108	108
4. Other Properties											
Water absorption (23 ° C, 24 hr)	62 method 1	%	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Density	1183	g/cm ³	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
Refractive index	489	-	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49	1.49
Total luminous transmittance	13468-1	%	92	92	92	92	92	92	92	92	92
Rockwell hardness M scale	2039-2	-	95	92	95	100	95	95	98	100	100
Mold shrinkage	ASAHI KASEI PMMA method	%	0.2~0.6	0.2~0.6	0.2~0.6	0.2~0.6	0.2~0.6	0.2~0.6	0.2~0.6	0.2~0.6	0.2~0.6

NOT! The above values are representative values of natural colors and are not standard values or guaranteed.

The test piece preparation conditions, annealing conditions, and test conditions in accordance with the conditions specified or recommended by the PMMA resin standard of ISO8257-2. 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.