

General properties of DELPETTM High Impact Grades

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Item	ISO Method	Unit	SR6201 Good Flow	SR6351 Impact	SR6501 High Impact	SR8201 High Heat	SR8350 High Heat Impact	SR8501 High Heat High Impact
1. Rheological Properties								
Melt mass-flow rate (230°C, 37.3N)	1133	g/10min	4.7	2.2	0.9	1.3	0.7	0.3
Spiral flow length Thickness : 2 mm Cylinder Temp : 250 ° C Mold Temp : 60 ° C Pressure : 75 MPa	ASAHI KASEI PMMA method	cm	3.5	3.0	2.8	2.5	2.4	2.2
2. Mechanical Properties								
Tensile modulus	527-2/1A/1	MPa	2500	1900	1400	2500	1800	1400
Tensile strength at break	527-2/1A/5	MPa	50	40	30	60	40	30
Tensile strain at break	527-2/1A/5	%	16	30	60	20	40	55
Flexural modulus	178	MPa	2500	1900	1400	2500	1800	1400
Flexural strength	178	MPa	100	70	50	100	70	50
Charpy impact strength (Unnotched)	179/1eU	kJ/m ²	2.5	7.0	13.0	2.5	7.5	12.0
Charpy impact strength (Notched)	179/1eA	kJ/m ²	1.4	4	8	1.5	3	7
3. Thermal Properties								
Temperature of deflection under load (1.8 MPa)	75-1 75-2	° C	85	81	79	94	89	84
VICAT softening temperature	306 B 50	° C	93	86	79	102	94	84
4. Other Properties								
Water absorption (23 ° C, 24 hr)	62 method 1	%	0.3	0.3	0.3	0.3	0.3	0.3
Density	1183	g/cm ³	1.17	1.16	1.14	1.17	1.16	1.14
Refractive index	489	-	1.49	1.49	1.49	1.49	1.49	1.49
Total luminous transmittance	13468-1	%	92	92	92	92	92	92
Rockwell hardness R scale	2039-2	-	116	104	90	118	106	92
Mold shrinkage	ASAHI KASEI PMMA method	%	0.3~0.7	0.3~0.8	0.4~0.8	0.3~0.7	0.3~0.8	0.4~0.8

NOTE! 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.