

# KURARITY™ for Modifier Application (PMMA)

KURARITY business promotion dept.  
Elastomer Division

# Mechanical Properties of PMMA / KURARITY™

Material	Grade/Method	Unit	Entry 1	Entry 2	Entry 3	Entry 4	Entry 5	Entry 6	Entry 7
PMMA PARAPET™	PARAPET™ HR-1000L		100	95	90	85	80	50	
KURARITY™	KURARITY™ LA4285			5	10	15	20	50	100
MFR	ISO 1133 [230 deg.C 2.16 kgf]	g / 10 min	1.1	1.4	1.7	2.2	3.5	8.2	31
Haze	ISO 1472 [3 mmt]	%	0.3	0.7	1.7	2.8	3.5	2.3	1.0
Transmittance	ISO 13468-1 [3 mmt]	%	92	92	91	89	88	89	92
Charpy Impact	ISO 179 (notched: 1eA)	kJ / m <sup>2</sup>	1.4	1.0	1.2	1.0	1.1	8.5	28
Specific Gravity	ISO 1183	-	1.2	1.2	1.2	1.2	1.2	1.1	1.1
Hardness A	ISO 7619-1	-	95<	91	91	91	91	89	96
Hardness D	ISO 7619-1	-	85-90	86	85	84	83	67	46
DTUL	ISO 75-1,2 (0.45 MPa)	deg.C	98	105	105	105	102	97.0	-
Vicat Softening Point	ISO 306	deg.C	108	103	103	102	100	78	58
Tensile Strength	ISO 527-2	MPa	60-80	66	57	54	56	32	19
Tensile Elongation	ISO 527-2	%	2-7	14	16	15	13	45	90
Flexural Modulus	ISO 178	MPa	3300	3200	3100	2900	2800	1700	650

\*PARAPET is a registered trademark of Kuraray Co., Ltd

**Kuraray Co., Ltd.**  
Elastomer Division  
Tokiwabashi Tower  
2-6-4, Otemachi  
Chiyoda-ku, Tokyo, 100-0004, Japan

✉ [elastomer@kuraray.com](mailto:elastomer@kuraray.com)

→ [www.kuraray.com](http://www.kuraray.com)

→ [www.elastomer.kuraray.com](http://www.elastomer.kuraray.com)

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Precautions should be taken in handling and storage. Please refer to the appropriate Safety Data Sheet for further safety information. In using KURARITY™, please confirm related laws and regulations, and examine its safety and suitability for the application.

For medical, health care and food contact applications, please contact your Kuraray representative for specific recommendations. Even so, users must conduct their own assessment, revisions, registrations as well rely in their own technical and legal judgment to establish the safety and efficacy of their compound and/or end product with KURARITY™ for any application. KURARITY™ should not be used in any devices or materials intended for implantation in the human body. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.

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