



Consumer Solutions

# XIAMETER™ High Consistency Rubber (HCR) Bases

## Selection Guide – Americas



Product Series	XIAMETER™ Product Name	Peroxide Catalyst Type	Cure Profile	Hardness, Shore A	Tensile, MPa	Elongation, %	Tear, kN/m	Plasticity, mm X 100	Compression Set, %	Specific Gravity, g/cm <sup>3</sup>	Modulus 100%, MPa
<b>HCR Bases</b>											
<b>General Purpose</b>											
<b>XIAMETER™ RBB-2000/ RBB-2001 Series</b>	XIAMETER™ RBB-2000-35 Base	2,4-dichlorobenzoyl peroxide - 50% active (1.1 pph)	Press Cure: 5'/116°C Post Cure: 4 h/200°C	35	7.8	705	13	150	24	1.1	0.6
	XIAMETER™ RBB-2001-65 Base	2,4-dichlorobenzoyl peroxide - 50% active (1.5 pph)	Press Cure: 5'/116°C Post Cure: 4 h/200°C	71	10.1	320	18	300	18	1.2	2.9
<b>XIAMETER™ RBB-2002 Series</b>	XIAMETER™ RBB-2002-30 Base	2,5-bis(tert-butylperoxy)-2,5-dimethylhexane - 45% active (1 pph)	Press Cure: 10'/171°C Post Cure: 1 h/250°C	35	6	585	10	150	NA	1.09	0.6
	XIAMETER™ RBB-2002-45 Base	2,4-dichlorobenzoyl peroxide - 50% active (1.2 pph)	Press Cure: 5'/116°C Post Cure: 4 h/200°C	48	8.1	445	11	220	NA	1.13	1.1
	XIAMETER™ RBB-2002-50 Base	2,4-dichlorobenzoyl peroxide - 50% active (1.2 pph)	Press Cure: 5'/116°C Post Cure: 4 h/200°C	52	8.8	430	13	260	NA	1.15	1.2
	XIAMETER™ RBB-2002-70 Base	2,5-bis(tert-butylperoxy)-2,5-dimethylhexane - 45% active (1 pph)	Press Cure: 10'/171°C Post Cure: 1 h/250°C	67	7.1	490	27	350	NA	1.23	1.6
<b>XIAMETER™ RBB-2300-30 Base</b>	XIAMETER™ RBB-2300-30 Base	2,5-bis(tert-butylperoxy)-2,5-dimethylhexane - 45% active (1 pph)	Press Cure: 10'/171°C	35	6.6	730	11	190	13	1.1	0.4
<b>No Post Cure</b>											
<b>XIAMETER™ RBB-2030 Series</b>	XIAMETER™ RBB-2030-40 Base	2,5-bis(tert-butylperoxy)-2,5-dimethylhexane - 45% active (1 pph)	Press Cure: 10'/171°C	40	7.2	575	11	150	14	1.11	0.8
	XIAMETER™ RBB-2030-80 Base	2,5-bis(tert-butylperoxy)-2,5-dimethylhexane - 45% active (1 pph)	Press Cure: 10'/171°C	85	8	90	15	270	13	1.43	NA
<b>Tear Resistant</b>											
<b>XIAMETER™ RBB-2220 Series</b>	XIAMETER™ RBB-2220-55 Base	2,5-bis(tert-butylperoxy)-2,5-dimethylhexane - 45% active (1 pph)	Press Cure: 10'/171°C	55	10.6	785	51	210	34	1.15	2.1
	XIAMETER™ RBB-2220-70 Base	2,5-bis(tert-butylperoxy)-2,5-dimethylhexane - 45% active (1 pph)	Press Cure: 10'/171°C	70	8.7	540	51	250	27	1.2	4

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<b>High Strength</b>											
<b>XIAMETER™ RBB-2210 Series</b>	XIAMETER™ RBB-2210-30 Base	2,4-dichlorobenzoyl peroxide - 50% active (0.8 pph)	Press Cure: 5'/116°C Post Cure: 4 h/200°C	30	9.1	1120	35	170	32	1.14	0.6
	XIAMETER™ RBB-2210-50 Base	2,4-dichlorobenzoyl peroxide - 50% active (1.3 pph)	Press Cure: 5'/116°C Post Cure: 4 h/200°C	50	9	690	34	220	27	1.19	1.2
	XIAMETER™ RBB-2210-70 Base	2,5-bis(tert-butylperoxy)-2,5-dimethylhexane - 45% active (1.2 pph)	Press Cure: 10'/171°C Post Cure: 4 h/200°C	70	9.9	515	36	290	30	1.22	2.4
<b>Low Temperature</b>											
<b>XIAMETER™ RBB-2060 Series</b>	XIAMETER™ RBB-2060-40 Base	2,4-dichlorobenzoyl peroxide - 50% active (0.6 pph)	Press Cure: 5'/116°C Post Cure: 4 h/200°C	40	7.2	625	11	160	18	1.13	0.06
	XIAMETER™ RBB-2060-50 Base	2,5-bis(tert-butylperoxy)-2,5-dimethylhexane - 45% active (1.0 pph)	Post Cure: 10'/171°C Post Cure 4 h/200°C	50	8.9	630	32	120	27	1.21	1.2
<b>Wire and Cable</b>											
<b>XIAMETER™ RBB-2340 Series</b>	XIAMETER™ RBB-2340-50 Base	2,4-dichlorobenzoyl peroxide - 50% active (1.3 pph)	Press Cure: 5'/116°C	50	10.1	465	18	330	NA	1.17	1.3
	XIAMETER™ RBB-2340-70 Base	2,4-dichlorobenzoyl peroxide - 50% active (1.5 pph)	Press Cure: 5'/121°C	70	9.9	375	19	350	NA	1.2	2.4
<b>Low Compression Set</b>											
<b>XIAMETER™ RBB-2380 Series</b>	XIAMETER™ RBB-2380-40 Base	2,5-bis(tert-butylperoxy)-2,5-dimethylhexane - 45% active (1.0 pph)	Press Cure: 10'/171°C	45	4.6	345	7	180	8	1.09	1.1

**Typical Properties** – Specification Writers: These values are not intended for use in preparing specifications. Please contact your local XIAMETER™ sales representative prior to writing specifications on these products.

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