

# REXPEARL™ EEA

EEA-1

2022/10/16

Basic Properties	Method	Unit	A1100	A3100	A1150	A4200	A6200	A4250
MFR	g/10min	ISO 1872-2	0.4	3	0.8	5	20	5
Density	g/cm <sup>3</sup>	ISO 1872-1,2	0.930	0.930	0.932	0.934	0.934	0.937
Ethyl Acrylate Content	wt%	JPE Method	10	10	15	20	20	25
Tensile Modulus	MPa	ISO 527-2	90	80	46	23	18	-
Tensile Strength at Yield	MPa	ISO 1872-2	No-Yield	No-Yield	No-Yield	No-Yield	No-Yield	No-Yield
Tensile Strength at Break	MPa	ISO 1872-2	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break
Tensile Strain at Break	%	ISO 1872-2	>400	>400	>400	>400	>400	>400
Flexural Modulus	MPa	ISO 1872-2	99	93	54	28	22	21
Charpy Impact Strength	kJ/m <sup>2</sup>	ISO 1872-2	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break
Tensile Impact Strength	kJ/m <sup>2</sup>	ISO 1872-2	290	250	250	280	230	290
Durometer Hardness, Type D	-	ISO 868	46	44	41	34	31	30
Vicat Softening Temperature	°C	ISO 306	83	75	67	50	43	41
Melting Point	°C	ISO 11357-3	104	104	100	96	94	92
Brittleness Temperature	°C	ISO 974	<-70	<-70	<-70	<-70	<-70	<-70
Test Specimens			Compression	Compression	Compression	Compression	Compression	Compression
Application			<ul style="list-style-type: none"> <li>● Wire Coating</li> <li>● Film / Sheet</li> </ul>	<ul style="list-style-type: none"> <li>● Wire Coating</li> <li>● Film / Sheet</li> </ul>	<ul style="list-style-type: none"> <li>● Wire Coating</li> <li>● Sheet</li> </ul>	<ul style="list-style-type: none"> <li>● Wire Coating</li> <li>● Asphalt Modification</li> </ul>	<ul style="list-style-type: none"> <li>● Injection Molding</li> </ul>	<ul style="list-style-type: none"> <li>● Wire Coating</li> </ul>
PL confirmation certificate for food applications (JPN)			Approved	Approved	Approved	Unapproved	Unapproved	Unapproved

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# REXPEARL™ EMA

EMA-1

2022/10/16

Basic Properties	Unit	Method	EB330H	EB230X	EB140F	EB240H	EB440H	EB050S	EB033FC
MFR	g/10min	ISO 1872-2	10	6.0	2.6	6.0	20	2.0	2.0
Density	g/cm <sup>3</sup>	ISO 1872-1,2	0.931	0.935	0.941	0.941	0.941	0.947	0.937
Methyl Acrylate Content	wt%	JPE Method	12	14	20	20	20	24	15
Tensile Modulus	MPa	ISO 1872-2	51	42	23	23	22	15	42
Tensile Strength at Yield	MPa	ISO 1872-2	No-Yield	No-Yield	No-Yield	No-Yield	No-Yield	No-Yield	No-Yield
Tensile Strength at Break	MPa	ISO 1872-2	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break
Tensile Strain at Break	%	ISO 1872-2	>400	>400	>400	>400	>400	>400	>400
Flexural Modulus	MPa	ISO 1872-2	55	47	25	25	22	19	48
Charpy Impact Strength	kJ/m <sup>2</sup>	ISO 1872-2	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break
Tensile Impact Strength	kJ/m <sup>2</sup>	ISO 1872-2	180	190	230	230	220	300	220
Durometer Hardness, Type D	-	ISO 868	41	37	32	32	29	30	36
Durometer Hardness, Type A	-	ISO 868	91	89	84	84	84	82	90
Vicat Softening Temperature	°C	ISO 306	61	58	47	47	44	42	49
Melting Point	°C	ISO 11357-3	90	87	77	77	77	73	
Brittleness Temperature	°C	ISO 974	<-70	<-70	<-70	<-70	<-70	<-70	<-70
Test Specimens			Compression	Compression	Compression	Compression	Compression	Compression	Compression
Application			<ul style="list-style-type: none"> <li>● Extrusion Coating</li> <li>● Film</li> </ul>	<ul style="list-style-type: none"> <li>● Modifier</li> </ul>	<ul style="list-style-type: none"> <li>● Film</li> </ul>	<ul style="list-style-type: none"> <li>● Extrusion Coating</li> <li>● Film</li> </ul>	<ul style="list-style-type: none"> <li>● Extrusion Coating</li> </ul>	<ul style="list-style-type: none"> <li>● Film</li> <li>● Sheet</li> </ul>	<ul style="list-style-type: none"> <li>● Disposable gloves</li> </ul>
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# REXPEARL™ ET

ET-1

2022/10/16

Basic Properties	Unit	Method	ET220X	ET220H	ET230X	ET330H	ET350X	ET530H	ET720X	Under Development	Under Development
MFR	g/10min.	ISO 1872-2	8.5	8.0	8.0	10	12	30	80	8	23
Density	g/cm <sup>3</sup>	ISO 1872-1,2	0.939	0.940	0.938	0.946	0.951	0.948	0.939	0.96	0.964
Methyl Acrylate Content	wt%	JPE Method	8	8	12	16	23	16	8	33	33
Maleic Anhydride Content	-	JPE Method	Medium	Medium	Low	Medium	Medium	High	Medium	Medium	Medium
Flexural Modulus	MPa	ISO 1872-2	100	100	57	39	21	36	89	5	5
Tensile Strength at Yield	MPa	ISO 1872-2	No-Yield	No-Yield	No-Yield	No-Yield	No-Yield	No-Yield	No-Yield	No-Yield	No-Yield
Tensile Strength at Break	MPa	ISO 1872-2	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break
Tensile Strain at Break	%	ISO 1872-2	>400	>400	>400	>400	>400	>400	>400	>400	>400
Charpy Impact Strength	kJ/m <sup>2</sup>	ISO 1872-2	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break	No-Break
Tensile Impact Strength	kJ/m <sup>2</sup>	ISO 1872-2	180	180	210	210	470	180	140	230	210
Tensile Modulus	MPa	ISO 1872-2	97	97	54	39	19	37	77	10	10
Durometer Hardness, Type D	-	ISO 868	45	45	39	37	31	36	44	14	10
Durometer Hardness, Type A	-	ISO 868	-	-	-	-	79	-	-	59	52
Vicat Softening Temperature	MPa	JIS K 7206	79	79	64	54	40	51	67	-	-
Melting Point	°C	ISO 11357-3	99	99	88	86	73	86	98	86	98
Brittleness Temperature	°C	ISO 974	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70	<-70
Test Specimens			Compression	Compression	Compression	Compression	Compression	Compression	Compression	Compression	Compression
Application			● Modifier	● Extrusion Coating	● Modifier	● Sheet	● Modifier ● Adhesive	● Adhesive Film ● Compatibilizer	● Hot melt adhesive ● Compatibilizer	-	-
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# REXPEARL™ FR

FR-1

2022/10/16

項目	単位	測定規格	CA1153BM	CA1155B	CR138GB	CR236GB	CR230GB	CR238GB	CR272FY	CA11571N	CR246FH	
MFR	g/10min	ISO 1872-2	0.27	0.12	0.14	0.13	0.17	0.10	0.22	0.08	0.38	
Density	g/cm <sup>3</sup>	ISO 1872-1,2	1.29	1.31	1.31	1.31	1.28	1.30	1.37	1.40	1.28	
Tensile Strength	MPa	ISO 37	15.3	14.6	13.2	13.1	14.3	14.7	14.0	15.2	15.0	
Tensile Strain at Break	%	ISO 37	670	640	580	640	630	590	700	690	730	
Property at Aging	Aging condition	--	100°C×48h	100°C×48h	100°C×48h	100°C×48h	100°C×48h	100°C×48h	100°C×48h	100°C×48h	90°C×96h	
	Strength Retention	%	JIS C 3005	93	96	91	96	90	88	88	95	93
	Strain Retention	%	JIS C 3005	101	100	92	101	96	95	99	100	103
Cold Impact	@-50°C	--	JIS C3005	NB	NB	NB	NB	NB	NB	(NB@-40°C)	NB	NB
ESCR	50°C 48h	--	ASTM D1693	NB	NB	NB	NB	NB	NB	NB	NB	NB
Smoke Density (Non Flaming)	Ds	ASTM E 662	69	73	59	69	57	55	49	50	53	
Gas Acidity at Combustion	pH	JCS 7397	4.0	3.8	3.8	4.2	4.2	4.3	4.3	4.1	4.5	
Oxygen Index	O2%	ISO 4589-1	37	36	36	33	33	32	32	36	24	
Color Variations	Catalog		Black	Black	Black	Black	Black	Black	Yellow	Natural	Gray	
	Others		Orange				Red, Blue		Please Contact			
Application			● Communication Cable ●Power Cable ●Fire Resistant	● Communication Cable ●Power Cable ●Fire Resistant	● Communication Cable ●Power Cable ●Fire Resistant	● Communication Cable ●Power Cable	● Communication Cable ●Power Cable	● Power Cable ●Fire Resistant ●Railway Cable	● Communication Cable (Inner Office)	● Communication Cable (Inner Office) ●LAN Cable	● Energy System Cable ●EEF Cable	

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