

**ULTZEX<sup>R</sup> (Injection, Roto, Blow) Product Data Sheet**

Testing Items		Unit	Testing Method *1			Injection Molding					Rotomolding	Blow Molding
			JIS K	ISO	ASTM	15150J	20100J	20200J	25100J	4570	3550R	2020SB
General Physical Properties	Melt Index	g/10min	7210	1133		15	8.5	18.5	10	7.0	4.6	1.6
	Density	kg/m <sup>3</sup>	7112	1183		914	916	918	924	945	931	920
Mechanical Properties	Tensile Stress At Yield	MPa	7161 7162	527-1 527-2		9	9	8.9	9.7	18	13	-
	Tensile Stress At Break	MPa				19	17	>15	>15	>27	>25	16
	Elongation At Break	%				>500	>500	>500	>500	>500	>500	370
	Flexus Modulus	MPa	7171	178		160	160	200	240	660	410	190
	Charpy Impact Strength	kJ/m <sup>2</sup>	7111	179-1		NB	NB	NB	NB	18	NB	NB
	Shore D Hardness	-	7215	868		54	54	56	57	60	62	51
Chemical Properties	E.S.C.R	hours	-	-	D1693	70	300	20	200	>600	>600	>1000
Thermal Properties	Vicat Softening Point		7206	306		92	95	94	98	115	115	101
	Melting Point		7121	11357-3		115	120	120	120	127	124	-
Characteristics						Stress Cracking Resistance	Stress Cracking Resistance	Flowability	Stiffness	High Stiffness	Stress Cracking Resistance	Impact Strength
						Softness	Exterior Outlook	Stress Cracking Resistance	Stress Cracking Resistance			Processibility
												Clarity
Main Application						Cap	Cap	Cap	Cap	Cap	Storage Tank	Salad Sauce Container
						Air-tight Container	Bottle Inner Cap	Daily Necessities	Air-tight Container	Bottle Inner Cap	Cap	Blown Pipe
						Daily Necessities	Daily Necessities	Industrial Parts	Industrial Parts	Daily Necessities	Packaging	Detergent Container Cosmetic Container

\*1) Specimen preparation according to JIS K7151 (ISO293) and 7152 (ISO294) (Load at 2.16kg)  
 Melt Index above 1g/10min: Injection molding specimen  
 Melt Index below 1g/10min: Pressed sheet specimen

Statistics shown in the information are typical data tested under specific conditions.  
 Applications usage that is mentioned in the information might not be the usage of specified grade in the end product.  
 Pertaining to the usage and application recommendation information, please note the rights of the patentees.  
 In the usage of medical utensile and medicinal products, please be advised to have further consultation.  
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