



NN2510

IDEMITSU POLYCARBONATE

Non-bromine Flame-retardant PC Alloy grades



PC/PS Alloy, High Stiffness

Properties	Test Method	condition	NN2510	Units
ISO Identification Mark			>PC+PS-TD10-FR(40)<	
Density	ISO 1183 (JIS K7112)		1.23	g/cm ³
Water Absorption	ISO 62 (JIS K7209)	24h 50%RH	–	%
Fluidity				
Melt Volume-Flow Rate (MVR)	ISO 1133 (JIS K7210)	260°C 2.16kg	13	cm ³ /10min
Spiral Flow Length	Idemitsu Method	Thickness:2mm/Width:10mm Cylinder:240°C/Mold:40°C Inj.Pressure:125MPa	38	cm
Mechanical properties				
Tensile Stress at Yield*1			Y54	MPa
Nominal tensile strain at break*2			tB20	%
Flexural Strength			85	MPa
Flexural Modulus	ISO 178 (JIS K7171)		3.3	GPa
Charpy Impact Strength	ISO 179-1 (JIS K7111) (4mm thickness)	notched at 23°C	25	kJ/m ²
Rockwell Hardness	ISO 2039-2 (JIS K7202-2)	R scale/ M scale	–	–
Thermal properties				
Temperature of deflection under load	ISO 75-1,2 (JIS K7191-1,2)	0.45MPa 1.8MPa	90 80	°C
Vicat Softening Point	ISO 306		–	°C
Linear Thermal Expansion coefficient	ISO 11359-2		6	×10 ⁻⁵ /°C
Mould Shrinkage	Idemitsu Method	2mmMD 2mmTD	0.4~0.6 0.4~0.6	%
Optical properties				
Total Luminous Transmittance	ISO 13468-1 (JIS K7361-1)	3mm	–	%
Haze	ASTM D1003	3mm	–	%
Refractive Index	ASTM D542		–	–
Flammability				
Flammability Rating	UL94	class/mini-thickness	V-0/1.5 5VB/1.5 5VA/2.3	mm thickness
Comparative tracking index(CTI)	UL746A		–	PLC level
Arc Resistance	ASTM D495		–	PLC level
UV light, Water exposure and immersion	UL746C		–	–
Electrical properties				
Dielectric Strength	IEC 60243-1 (JIS C2110)		–	kV/mm
Volume Resistivity	ASTM D257		–	Ω·cm
Dielectric Constant		1MHz	–	–
Dielectric dissipation Factor	IEC 60250	1MHz	–	–
Standard Molding Parameters				
Cylinder Temperature			250~280°C (Maximum 290°C)	
Mold Temperature			40~70°C	
Pre-drying condition			80~90°C, 4~8hours	

*1 Y:Yield strength

*2 tB : Nominal tensile strain at break

◇Data in this Catalogue shows sample figures measured under certain specific conditions.

◇Usage of the products in this catalogue does not warrant any successful results of applications of the products for specific usage.

◇In case of the products being used for purpose and usage introduced in this Catalogue, please pay attention not to infringe of industrial property rights (patent, utility model, design, etc.) of third party which may relate to such use. (IDEMITSU SHALL NOT BE LIABLE TO SUCH INFRINGEMENTS.)

◇You should not use the products in medical equipment and medical product applications.

◇Please verify whether the grade of products to be used for food utensils, cookware or packaging applications supplied by idemitsu will meet the requirement of applicable laws (ex. food sanitation law in japan, etc.) and ordinances in advance.

◇Please verify whether products using raw materials supplied by Idemitsu with applicable laws and ordinances.

◇Please agree to the quality specification in advance if you purchase our products.

◇Figures of physical characteristics of other producer's resins have been referred from their Catalogues and information source thereof.

◇Please note that the content of this Catalogue may be altered from time of time according to the improvement of the products without prior notice.

◇Flammability rating in this Catalogue was evaluated with small-scale test method and it is not intended to reflect fire proof performance in case of actual fire.

◇In case of exporting the product, please pay attention to the laws and regulations of chemical substances and other substances in the exporting country.

For inquiries regarding the applicability of our products to individual laws and regulations, please consult our HP contact or sales staff.