

TECHNICAL DATA SHEET

TOYOLAC® 700-314

Toray Industries, Inc.
ABS

Product Text

Product Information

This material is produced by Toray Plastics (Malaysia).

Processing/Physical Characteristics	Value	Unit	Standard
Melt flow index, MFI	23	g/10min	ISO 1133
Temperature	220	°C	
Load	10	kg	
Mechanical Properties	Value	Unit	Standard
Tensile strength	54	MPa	ISO 527
Strain at break	18	%	ISO 527
Flexural modulus, 23°C	2540	MPa	ISO 178
Charpy notched impact strength, +23°C	17	kJ/m ²	ISO 179/1eA
Rockwell hardness	R 115		ISO 2039-2
Tensile strength	50	MPa	ASTM D 638
Elongation at break	35	%	ASTM D 638
Flexural modulus	2450	MPa	ASTM D 790
Rockwell hardness	R 115		ASTM D 785
Izod impact notched, 1/8 in	196	J/m	ASTM D 256
Izod impact notched, Low-Temperature	118	J/m	ASTM D 256
Temperature	-30	°C	
Thermal Properties	Value	Unit	Standard
Temp. of deflection under load, 1.80 MPa	82	°C	ISO 75-1/-2
UL 94 flame rating	HB		UL 94
Coefficient of thermal expansion, MD	71	E-6/K	ASTM D 696
DTUL @ 264 psi	87	°C	ASTM D 648

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Electrical Properties	Value	Unit	Standard
Dielectric strength, short time	23	kV/mm	ASTM D 149
Surface resistivity	>1E15	Ohm	ASTM D 257
Volume resistivity	>1E15	Ohm*cm	ASTM D 257
Other Properties	Value	Unit	Standard
Density	1050	kg/m ³	ISO 1183
Density	1050	kg/m ³	ASTM D 792