

TYPICAL PROPERTIES OF TOYOLAC 450Y X10

Typical Properties	Test Method	Test Conditions	SI Unit	Typical Value
Physical				
Specific Gravity	ASTM D792		-	1.07
Mould Shrinkage	ASTM D955		%	0.5 - 0.8
Rheological				
Melt Flow Rate	ISO 1133	220°C / 10 kg	g/10 min	6
Mechanical				
Tensile stress at yield	ASTM D638	at 5 mm/min	MPa	46
Tensile strain at break	ASTM D638	at 5 mm/min	%	12
Flexural Strength	ASTM D790	at 3 mm/min	MPa	77
Flexural Modulus	ASTM D790	at 3 mm/min	MPa	2300
Rockwell Hardness	ASTM D785	R scale	-	111
Impact				
Izod Impact Strength, notched	ASTM D256	12.7 x 62.5 x 12.7 ^t mm (23°C)	J/m	129
Izod Impact Strength, notched	ASTM D256	12.7 x 62.5 x 3.2 ^t mm (23°C)	J/m	144
Thermal				
HDT (Unannealed) 127 x 12.7 x 6.4tmm	ASTM D648	1.82 MPa Loading, 18.56 kg/cm ²	°C	98
Flammability				
Flammability	UL 94		-	HB

Toray Plastics Malaysia Sdn.

