

PHYSICAL PROPERTIES OF starex Extrusion ABS ES-0173

Properties at 23°C	Test Method	Test Condition	Unit	Value
Physical Properties				
Specific Gravity	ASTM D792	Natural Color	-	1.04
Melt Flow Index	ASTM D1238	220°C/10kg	g/10min	3.0
Mechanical Properties				
Tensile Strength	ASTM D638	5mm/min	MPa(psi) kgf/cm ²	39(5,700) 400
Flexural Strength	ASTM D790	2.8mm/min	MPa(psi) kgf/cm ²	52(7,500) 530
Flexural Modulus	ASTM D790	2.8mm/min	MPa(psi) kgf/cm ²	1,900(270,000) 19,000
Izod Impact Strength (notched)	ASTM D256	1/4 inch	J/m(ft·lbf/in) kgf·cm/cm	324(6.1) 33
		1/8 inch	J/m(ft·lbf/in) kgf·cm/cm	471(8.8) 48
Rockwell Hardness	ASTM D785	R-scale	-	93
Thermal Properties				
Heat Deflection Temperature (unannealed), 1/4"	ASTM D648	1.8MPa	°F °C	192 89
Vicat Softening Temperature (unannealed)	ISO R 306	B/50	°F °C	210 99
Flammability				
UL 94 Classification	UL94	1.3mm specimen	Recognized	HB

* The above values are only the representatives of natural color specimen, not for guarantee.

* last updated : April. 11, 2006