

Data Sheet of SKYPETHR

- Chemical Composition ; Poly(ethylene terephthalate)

- Injection Molded Property (ASTM Method)

Property	Test Method	Unit	Typical Values
Physical & Chemical			
Specific Gravity	ASTM D792	-	1.3
Rockwell Hardness	ASTM D785	R-scale	105
Mold Shrinkage, 3.2mm	ASTM D955	%	0.3 – 0.6
DEG Content	SK Method	wt%	1.2
Acid Number (Carboxyl end group content)	SK Method	Meq/kg	33
Mechanical			
Tensile Strength @ Yield 50mm/min (2 inch/min)	ASTM D638	MPa (kgf/cm ²)	50 (510)
Tensile Strength @ Break 50mm/min (2 inch/min)	ASTM D638	MPa (kgf/cm ²)	25 (260)
Elongation @ Yield 50mm/min (2 inch/min)	ASTM D638	%	4.5
Elongation @ Break 50mm/min (2 inch/min)	ASTM D638	%	> 50
Flexural Strength 1.27mm/min (0.05 inch/min)	ASTM D790	MPa (kgf/cm ²)	83 (850)
Flexural Modulus 1.27mm/min (0.05 inch/min)	ASTM D790	MPa (kgf/cm ²)	2500 (25400)
Izod Impact Strength, Notched @ 23 °C(73 °F)	ASTM D256	J/m	38
Izod Impact Strength, Notched @ -40 °C(-40 °F)	ASTM D256	J/m	27
Thermal			
Heat Distortion Temperature @ 0.455 MPa(66 psi)	ASTM D648	°C	69
Glass Transition Temperature	DSC method (scan rate 10 °C/min)	°C	80
Optical			
Color-L (for crystalline pellets)	ASTM D1003	%	> 89

