

SOLARENE[®] HIPS, H-724

Test item	Unit	Test method		Typical value	
		ISO	ASTM	ISO	ASTM
<i>Mechanical properties</i>					
Tensile stress at yield	MPa	527	D638	25	
Tensile stress at break	MPa	527	D638	24	
Tensile strain at yield	%	527	D638	0.7	
Tensile strain at break	%	527	D638	65	
Young's modulus	MPa	527	D638	1,765	
Flexural strength	MPa	178	D790	43	
Flexural modulus	MPa	178	D790	2,157	
Charpy impact strength(23°C/-30°C)	kJ/m ²	179	-	109/121	
Charpy notched impact strength(23°C/-30°C)	kJ/m ²	179	D6110	12.7/8.5	
IZOD impact notched strength(23°C)	kJ/m ²	180	D256	13	
IZOD impact notched strength(-23°C)	kJ/m ²	180	D256	-	
Rockwell hardness(L scale)	-	2039	D785	65	
<i>Rheological Properties</i>					
Melt flow index(200°C-5kg)	g/10min	1133	D1238	5	
Molding shrinkage(along chain)	%	Injection	Injection	.6	
Molding shrinkage(across chain)	%	injection	injection	.5	
<i>Thermal properties</i>					
VICAT softening temp., (B/50)	°C	306	D1525	97	
Heat distortion temp., (1.8MPa)	°C	75	D648	75	
<i>Optical properties</i>					
Haze(Injection Mold Specimen)	%		D1003	-	
Yellow index(Pellets)	-		D1925	-	
<i>Burning properties</i>					
Flammability, 1.6t	Class		UL94		HB
3.2t	Class		UL94		HB

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