

High Transparency/High Weather Resistance Grades

Properties	Test Method	Terms	Unit	HL-3000U N412	HL-3000
Physical Properties					
Density	ISO 1183	–	g/cm ³	1.2	1.2
Water absorption rate	MEP method	Under water of 23°C for 24 Hrs	%	0.24	0.24
Rheological Properties					
Q value	MEP method	280°C	× 10 ⁻² cc/sec	21	20
Melt Volume rate	ISO1133	–	cm ³ /10min	34	32
		Temperature	°C	300	300
		Load	kgf	1.2	1.2
Molding Shrinkage (3.2mmt)	MEP method	MD	%	0.5 – 0.7	0.5 – 0.7
		TD		0.5 – 0.7	0.5 – 0.7
Mechanical Properties					
Tensile modulus	ISO 527	–	MPa	2400	2400
Yield stress				63	63
Yield strain				7	7
Nominal strain at break				140	140
Flexural strength	ISO 178	–	MPa	97	97
Flexural modulus				2400	2400
Charpy notched impact strength	ISO 179	23°C	kJ/m ²	27	27
Thermal Properties					
DTUL	ISO 75-1	1.80MPa	°C	125	125
Coefficient of Linear Thermal Expansion	ISO 11359-2	MD	1/°C	6.5E-05	6.5E-05
		TD	1/°C	6.6E-05	6.6E-05

The listed properties are portrayed as general information only and are not product specifications.