

ESFREE ABS5UV

Wednesday, October 12, 2011

General Information

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• UV Stabilizer
Features	• Good UV Resistance
Forms	• Pellets
Processing Method	• Injection Molding

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	5.5	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, 3.18 mm)	37.9	MPa	ASTM D638
Flexural Modulus ³ (3.18 mm)	2210	MPa	ASTM D790
Flexural Strength ³ (3.18 mm)	59.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	320	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed, 6.35 mm	82.2	°C	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating - UL (1.50 mm, ALL)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	87.8	°C
Drying Time	2.0	hr
Drying Time, Maximum	4.0	hr
Processing (Melt) Temp	218 to 260	°C
Mold Temperature	48.9 to 65.6	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	30 to 60	rpm

ESPREE ABS5UV

SABIC Innovative Plastics - Acrylonitrile Butadiene Styrene

Notes

¹ Typical properties: these are not to be construed as specifications.
² 5.1 mm/min
³ 1.3 mm/min