

ESPREE™ ABS7017

Acrylonitrile Butadiene Styrene

SABIC Innovative Plastics

Message:

ESPREE™ ABS7017 is an Acrylonitrile Butadiene Styrene (ABS) product. It can be processed by injection molding and is available in North America.

General Information			
UL YellowCard	E121562-100305628		
Features	General Purpose		
Forms	Pellets		
Processing Method	Injection Molding		
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)	5.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield, 3.18 mm)	37.9	MPa	ASTM D638
Flexural Modulus ² (3.18 mm)	2210	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
Injection	Nominal Value	Unit	
Drying Temperature	87.8	°C	
Drying Time	2.0	hr	
Drying Time, Maximum	2.0	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	
NOTE			
1.	5.1 mm/min		
2.	1.3 mm/min		

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