

Diamond ABS TR5000 BLACK 7449

LyondellBasell Industries - Acrylonitrile Butadiene Styrene

General Information

Product Description

Diamond ABS TR5000 BLACK 7449 is a Acrylonitrile Butadiene Styrene material and is typically used in Injection Molding applications.

General

Appearance	• Clear/Transparent
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.10		ASTM D792
Melt Mass-Flow Rate (MFR) ² (200°C/5.0 kg)	2.1	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (Yield)	7080	psi	ASTM D638
Flexural Modulus ⁴	334000	psi	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	2.1	ft-lb/in	ASTM D256A
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 264 psi, Unannealed, 0.125 in	163	°F	ASTM D648
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Optical	Nominal Value	Unit	Test Method
Light Transmittance (118.1 mil)	90.0	%	ASTM D1003
Haze (118.1 mil)	3.50	%	ASTM D1003

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176 to 185	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.10	%
Rear Temperature	374 to 482	°F
Middle Temperature	374 to 482	°F
Front Temperature	374 to 482	°F
Processing (Melt) Temp	420 to 450	°F
Mold Temperature	104 to 176	°F
Injection Rate	Moderate-Fast	