

Diamond ABS 5555 BLK

LyondellBasell Industries - Acrylonitrile Butadiene Styrene

General Information

Product Description

Diamond ABS 5555 BLK is a Acrylonitrile Butadiene Styrene material and is used in Injection Molding applications. General Purpose Industrial grade ABS - Black only

General

Additive	• Impact Modifier
Features	• Impact Modified
Uses	• General Purpose
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.05		ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	5.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield ²	6000	psi	
Yield	6000	psi	
Flexural Modulus - Tangent			ASTM D790
-- ³	331000	psi	
-- ⁴	330000	psi	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
73°F	2.0	ft-lb/in	
73°F, 0.125 in	3.9	ft-lb/in	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed	198	°F	
Deflection Temperature Under Load			ASTM D648
264 psi, Annealed, 0.125 in	198	°F	

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
Mold Temperature	104 to 176	°F
Injection Pressure	7010 to 11000	psi