

Ultramid® 8270 HS BK-102

Polyamide 6

BASF Corporation

Message:

Ultramid 8270 HS BK-102 is a thermally modified pigmented black, PA6 blow molding compound exhibiting exceptional toughness and melt strength ideally suited for blow molding, profile extrusion, and other applications requiring extra high melt viscosity. It exhibits excellent permeability and chemical resistance to oils, hydrocarbons and most solvents.

Applications

Ultramid 8270 HS BK-102 is generally recommended for applications such as industrial containers, small gasoline tanks, and automotive under hood reservoirs.

General Information	
UL YellowCard	E36632-231141
Additive	Heat Stabilizer
Features	Good Chemical Resistance
	Good Melt Strength
	Heat Stabilized
	Hydrocarbon Resistant
	Oil Resistant
	Solvent Resistant
	Ultra High Toughness
	Ultra High Viscosity
Uses	Automotive Under the Hood
	Fuel Tanks
	Industrial Containers
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS Compliant
Appearance	Black
Forms	Pellets
Processing Method	Blow Molding
	Profile Extrusion

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.13	--	g/cm ³	ASTM D792
Water Absorption				ASTM D570
24 hr	1.6	--	%	
Saturation	9.2	--	%	
Equilibrium, 50% RH	2.6	--	%	
Hardness	Dry	Conditioned	Unit	Test Method

Rockwell Hardness (R-Scale)	99	--		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength				ASTM D638
Yield, -40°C	138	119	MPa	
Yield, 23°C	84.0	46.0	MPa	
Yield, 121°C	24.0	--	MPa	
Tensile Elongation				ASTM D638
Yield, 23°C	4.0	--	%	
Break, 23°C	> 100	--	%	
Flexural Modulus				ASTM D790
-40°C	3160	3900	MPa	
23°C	2900	760	MPa	
65°C	435	--	MPa	
90°C	310	--	MPa	
121°C	260	--	MPa	
Flexural Strength				ASTM D790
-40°C	179	176	MPa	
23°C	114	37.0	MPa	
65°C	30.0	--	MPa	
90°C	20.0	--	MPa	
121°C	17.0	--	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact				ASTM D256
-40°C	53	48	J/m	
23°C	53 J/m	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ASTM D648
0.45 MPa, Unannealed	169	--	°C	
1.8 MPa, Unannealed	63.0	--	°C	
Peak Melting Temperature	220	--	°C	ASTM D3418
CLTE - Flow	1.4E-4	--	cm/cm/°C	ASTM E831
Additional Information	Dry	Conditioned	Unit	
Blow Molding Drying Temperature	80	--	°C	
Blow Molding Drying Time	2.0 to 4.0	--	hr	
Blow Molding Melt Temperature	245 to 260	--	°C	
Blow Molding Moisture Content	< 0.15	--	%	
Blow Molding Mold Temperature	60	--	°C	
Blow-up Ratio	2:1	--		

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