VYTEEN ABS 2904

Acrylonitrile Butadiene Styrene

Lavergne Group

Message:

Vyteen ABS 2904 is a black recycled ABS high impact high flow terpolymer with balanced impact/stiffness properties designed for injection molding applications
Features
Excellent resilience
Good processability
High Stiffness
Typical Applications
Automotive MS DB200 compliance
Appliances housing
Electrical components

General Information			
Features	Rigidity, high Impact resistance, high Workability, good High liquidity Terpolymer Elastic		
Uses	Home appliance components Application in Automobile Field Shell		
Appearance	Black		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity			
--	1.05	g/cm³	ASTM D792
23°C	1.05	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			
200°C/5.0 kg	7.0	g/10 min	ASTM D1238
230°C/3.8 kg	7.0	g/10 min	ISO 1133
Molding Shrinkage			ASTM D955
Flow	0.50	%	ASTM D955
Transverse flow	0.50	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	85		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2000	MPa	ISO 527-2/1

Tensile Strength			
Yield [1]	36.0	MPa	ASTM D638
Yield	35.0	MPa	ISO 527-2/50
Flexural Modulus			
-- [2]	2100	MPa	ASTM D790
-- [3]	2200	MPa	ISO 178
Flexural Strength			
-- [4]	62.0	MPa	ASTM D790
-- [5]	58.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/eA
-30°C	7.0	kJ/m^2	ISO 179/eA
23°C	15	kJ/m^2	ISO 179/eA
Notched Izod Impact (23°C)	170	J/m	ASTM D256
Dart Drop Impact			ASTM D5420
-29°C	4.00	J	ASTM D5420
23°C	15.0	J	ASTM D5420
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, not annealed	90.0	°C	ISO 75-2/B
1.8 MPa, not annealed	80.0	°C	ASTM D648
Vicat Softening Temperature	86.0	°C	ISO 306/B50
Flammability	**Nominal Value**	**Unit**	**Test Method**
Burning Rate	45	mm/min	SAE J369
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80.0	°C	
Drying Time	1.0 - 2.0	hr	
Suggested Max Moisture	0.30	%	
Rear Temperature	185 - 195	°C	
Middle Temperature	200 - 210	°C	
Front Temperature	220 - 240	°C	
Nozzle Temperature	230 - 240	°C	
Processing (Melt) Temp	220 - 235	°C	
Mold Temperature	50.0 - 70.0	°C	
Injection Rate	Moderate-Fast		
Screw Speed	60 - 90	rpm	
Injection instructions			
Injection Pressure: MediumBack Pressure: Medium			
NOTE			
1.	50 mm/min		
2.	1.3 mm/min		
3.	2.0 mm/min		

4.	1.3 mm/min
5.	2.0 mm/min

Recommended distributors for this material

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