

NEFTEKHIM ABS 1534

Acrylonitrile Butadiene Styrene

Nizhnekamskneftekhim Inc.

Message:

ABS 1534 - is an easy flow, molding grade with a good heat resistance during the process. It is used for production of household appliances, particularly, for complicated parts closed to heat source (front panel, washing machine frame). It is used for production of electrical goods as well. This grade is produced self-colored only, additives/dye free

General Information			
Features	Good Flow		
	High Heat Resistance		
Uses	Appliance Components		
	Consumer Applications		
	Electrical/Electronic Applications		
	Household Goods		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	12 to 18	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.60	%	
Water Absorption (Equilibrium)	0.30	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	109		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	45.0	MPa	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus	2350	MPa	ASTM D790
Flexural Strength (Yield)	69.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	DIN 53453
Notched Izod Impact Strength (23°C)	10	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	100	°C	ASTM D1525 ¹
CLTE - Flow	9.0E-5	cm/cm/°C	ASTM D696
Thermal Conductivity	0.17	W/m/K	ASTM C177
Deflection Temperature	102	°C	ASTM D648
Residual Styrene ²	0.050	%	Internal Method

Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Glow Wire Ignition Temperature	650	°C	IEC 60695-2-1
Optical	Nominal Value		Test Method
Gardner Gloss (20°)	50		ASTM D523
NOTE			
1.	Rate A (50°C/h), Loading 2 (50 N)		
2.	Test Method: TU 2214-159-05766801-2011		

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