

NEFTEKHIM ABS 1434

Acrylonitrile Butadiene Styrene

Nizhnekamskneftekhim Inc.

Message:

ABS 1434 - is an injection molding grade of general purpose with an easy flow - impact strength balance and high heat resistance during the process. It is used for production of small sized consumer goods, vacuum-cleaner and telecommunications. It is produced self-colored only, additives/ dye free.

General Information			
Features	Good Flow		
	Good Impact Resistance		
	Good Strength		
	High Heat Resistance		
Uses	Consumer Applications		
	Household Goods		
	Telecommunications		
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)	11 to 17	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)	110		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	42.0	MPa	ASTM D638
Tensile Elongation (Break)	60	%	ASTM D638
Flexural Modulus	2250	MPa	ASTM D790
Flexural Strength (Yield)	60.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	kJ/m ²	DIN 53453
Notched Izod Impact Strength (23°C)	11	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	97.0	°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	101	°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 (60°)	70		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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