

Dow Retain® 8209 ABS + Polycarbonate

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Data provided by Dow Chemical.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-Retain-8209-ABS-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ASTM Data
Melt Density	1.14 g/cc	0.0412 lb/in ³	Melt density
Melt Flow	22 g/10 min	22 g/10 min	ASTM Data
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	
Tensile Strength, Ultimate	86.0 MPa	12500 psi	ASTM Data
Elongation at Break	3.0 %	3.0 %	ASTM Data
Tensile Modulus	4.74 GPa	687 ksi	ASTM Data
Izod Impact, Notched	0.960 J/cm	1.80 ft-lb/in	ASTM Data
	0.910 J/cm	1.70 ft-lb/in	ASTM Data
	@Temperature -50.0 °C	@Temperature -58.0 °F	
Izod Impact, Unnotched	5.39 J/cm	10.1 ft-lb/in	ASTM Data
Impact Test	4.00 J	2.95 ft-lb	Instrumented Dart Total Energy
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	5.00 J	3.69 ft-lb	Instrumented Dart Total Energy
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.99 J/g-°C	0.476 BTU/lb-°F	
Thermal Conductivity	0.221 W/m-K	1.53 BTU-in/hr-ft ² -°F	
Deflection Temperature at 0.46 MPa (66 psi)	133 °C	271 °F	Unannealed; ASTM Data

Thermal Properties Deflection Temperature at 1.8 MPa (204 psi)	Metric	English	Comments ; ASTM Data
Vicat Softening Point	139 °C	282 °F	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China