

DESCRIPTION

RESIPRENE® 1090 is a Thermoplastic Elastomer (TPE) easy to process and great for injection molding process

FEATURES

- Easy color match
- Excellent Processability
- Good Mechanical Properties
- 100% recyclable
- Process with thermoplastics traditional equipment
- No predrying

APPLICATIONS: Tools handles, pipes, impact modifier, tooth brush handles, seals, dust guards, automotive interiors, soft touch applications

PROPERTIES

	ENGLISH		S.I.		STANDAR	
PHYSICAL						
Specific Gravity	lb/in ³	0.04	g/cm ³	1.02	-	-
Melt Flow Rate (190 oC/2.16Kg)	g/10 min	9.50	g/10 min	9.50	D1238	ASTM
MECHANICAL						
Tensile Strength, Break	psi	580	Mpa	4.00	D638	ASTM
Break Elongation	%	637	%	637	D638	ASTM
Tensile with 100% elongation	psi	348	Mpa	2.40	D638	ASTM
Tensile with 200% elongation	psi	392	Mpa	2.70	D638	ASTM
Tensile with 300% elongation	psi	435	Mpa	3.00	D638	ASTM
HARDNESS						
Shore A	-	90	-	90	DIN 53505	

.Typical values represent average laboratory values and are intended as guides only, not as specific specification limits.
 .Properties designated in this standar have been determined in accordance with the current issue of the specified testing methods

RESIPRENE® 1090, has a good stability in Melt Flow Rate. Maximum time of residence may vary with the size of the hussle. Generally, the hussle must be emptied if its out of operation for 5 to 8 minuts or more. Purge completly with a polyolefine before and after using this product

CONDITIONS

	°C	°F
Rear Barrel Temperature	(150-160)	(302-320)
Middle Barrel Temperature	(160-170)	(320-338)
Front Barrel Temperature	(170-180)	(338-356)
Nozzle Temperature	(190-200)	(374-392)
Mold Temperature	45	113
Maximum Recommended Temperature	280	536

ADDITIONAL INFORMATION

This material presents a very low moisture absorption and it is a common practice to mold it without pre-drying, however, if the material has been exposed to a high moisture environment or in direct contact with water, it is recommended to dry it for 1 hour at 60oC (140oF)

WARNING:

As most plastics materials, combustion of this material may cause hazardous fumes and gases, as well as situations that could be dangerous for health, especially in closed places. It should be noted that excessive heating or long residence times may cause degradation or yellowing.

NOTE:

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